

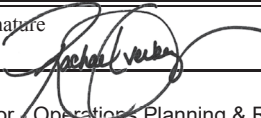
Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM101608
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☒ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator FRANKLIN MOUNTAIN ENERGY LLC [373910]		8. Lease Name and Well No. BLUE RIBBON FED COM 702H
3a. Address 44 Cook Street, Suite 1000, Denver, CO 80206	3b. Phone No. (include area code) (720) 414-7868	9. API Well No. 30-025-49394
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 3 / 215 FNL / 1355 FWL / LAT 32.166132 / LONG -103.342468 At proposed prod. zone SESW / 150 FSL / 1850 FWL / LAT 32.138032° / LONG -103.340887		10. Field and Pool, or Exploratory 98187 UPR WOLFCAMP [98187]/WC-025 G-09
14. Distance in miles and direction from nearest town or post office* 9.6 Miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 2/T25S/R35E/NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 215	16. No of acres in lease 1600	17. Spacing Unit dedicated to this well 320.87
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 955 feet	19. Proposed Depth 11742 feet / 22244 feet	20. BLM/BIA Bond No. in file FED: NMB001761
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3246.2	22. Approximate date work will start* 10/1/2021	23. Estimated duration 30 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature 	Name (Printed/Typed) Rachael Overbey	Date 9/13/2021
Title Director, Operations Planning & Regulatory		
Approved by (Signature) CHRISTOPHER WALLS	Digitally signed by CHRISTOPHER WALLS Date: 2021.09.17 12:43:03 -06'00'	Name (Printed/Typed) Date 9/17/21
Title Sup PE	Office CFO	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NGMP Rec 09/21/2021

KZ
09/21/2021

SL

(Continued on page 2)

*(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49394	² Pool Code 98187	³ Pool Name WC-025 G-09 S253502D; UPR WOLFCAMP
⁴ Property Code 329324	⁵ Property Name BLUE RIBBON FED COM	⁶ Well Number 702H
⁷ OGRID No. 373910	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY LLC	⁹ Elevation 3246.2'

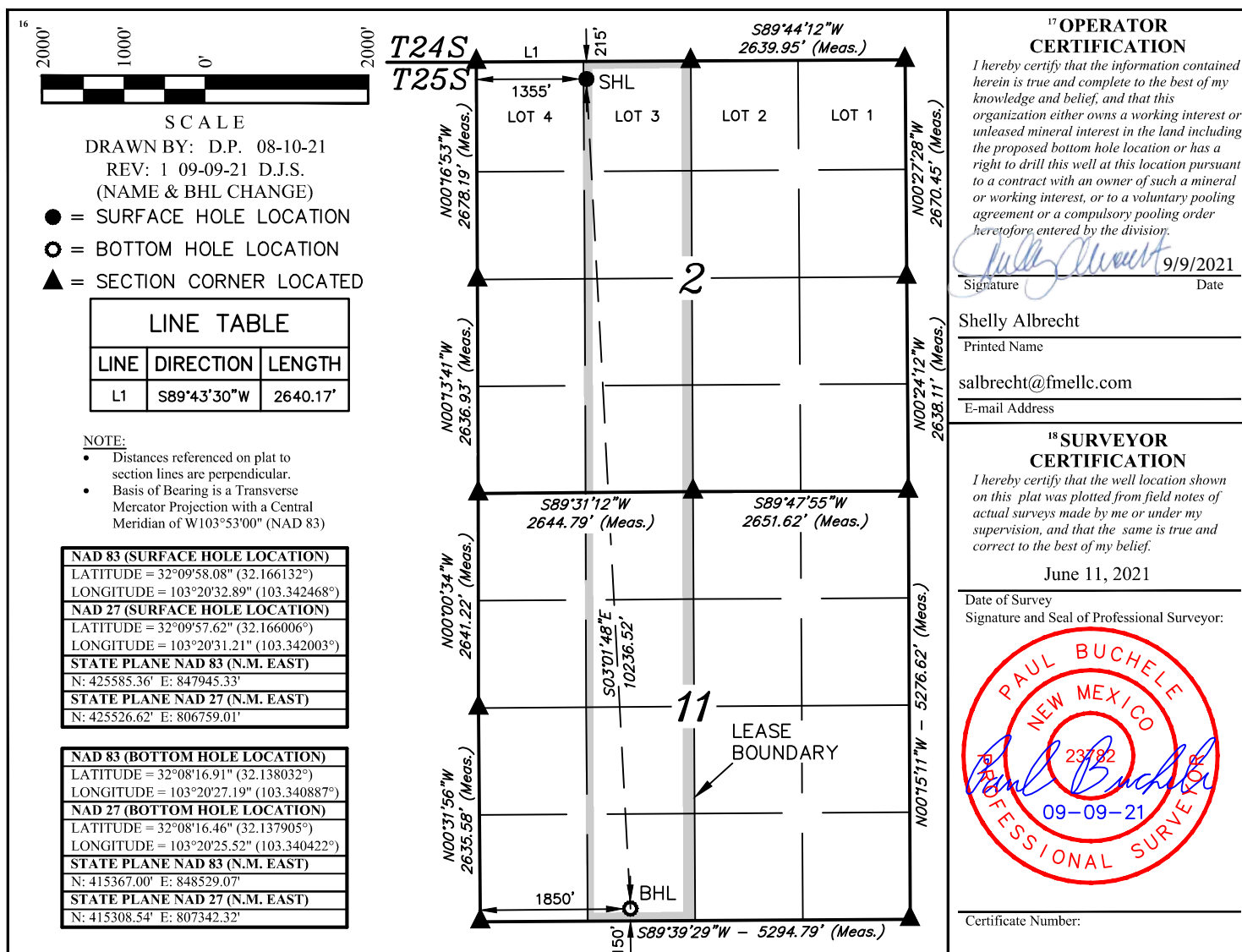
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 3	2	25S	35E		215	NORTH	1355	WEST	LEA

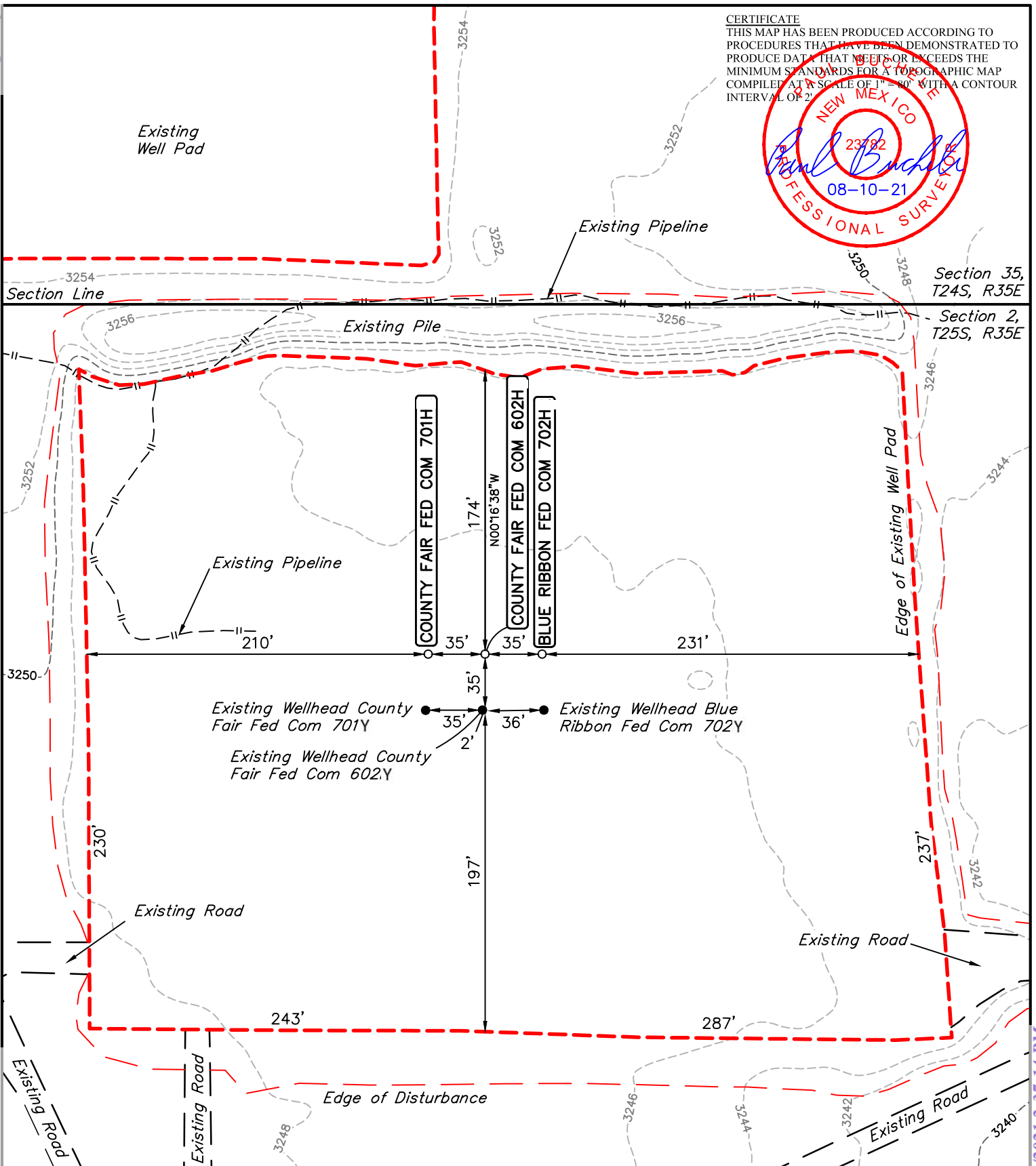
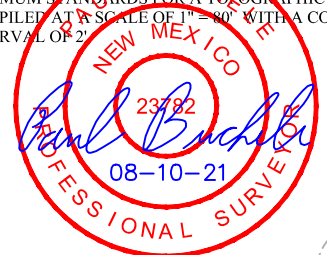
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	11	25S	35E		150	SOUTH	1850	WEST	LEA
¹² Dedicated Acres 320.87	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



CERTIFICATE
THIS MAP HAS BEEN PRODUCED ACCORDING TO
PROCEDURES THAT HAVE BEEN DEMONSTRATED TO
PRODUCE DATA THAT MEETS OR EXCEEDS THE
MINIMUM STANDARDS FOR A TOPOGRAPHIC MAP
COMPILED AT A SCALE OF 1" = 80' WITH A CONTOUR
INTERVAL OF 2'



NOTES:

- Contours shown at 2' intervals.
- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Total Well Pad Disturbance Contains ±6.147 Acres



FRANKLIN MOUNTAIN ENERGY LLC

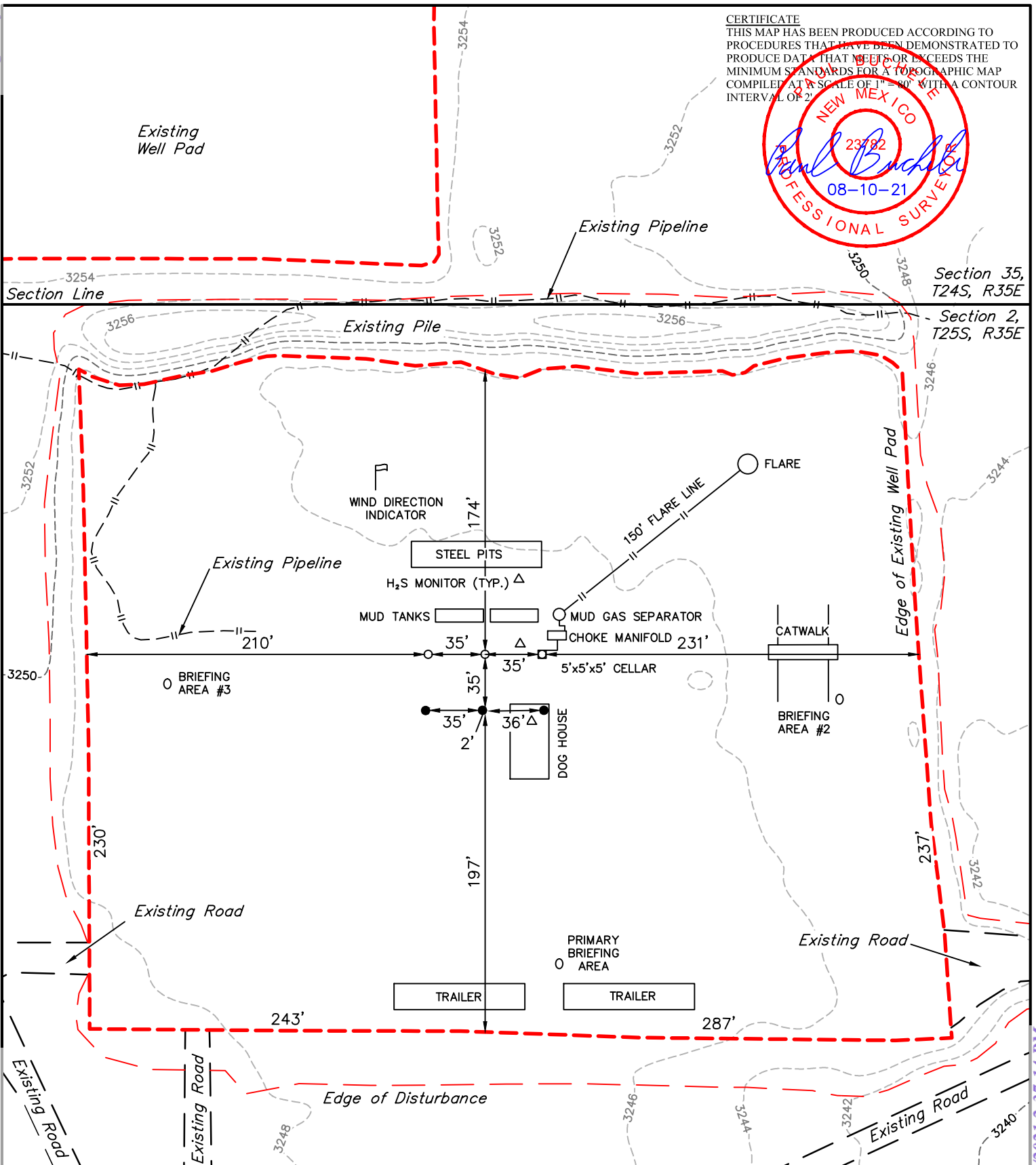
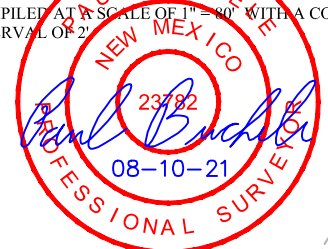
CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1" = 80'
AS-BUILT LOCATION LAYOUT			



UELS, LLC
Regional Office * 111 NE 3rd Street
Seminole, TX 79360 * (432) 955-6100
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

CERTIFICATE
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- NOTES:**
- Contours shown at 2' intervals.
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FRANKLIN MOUNTAIN ENERGY LLC

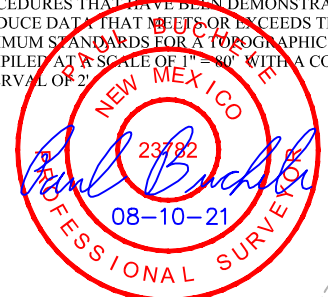
**CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1" = 80'
TYPICAL RIG LAYOUT			



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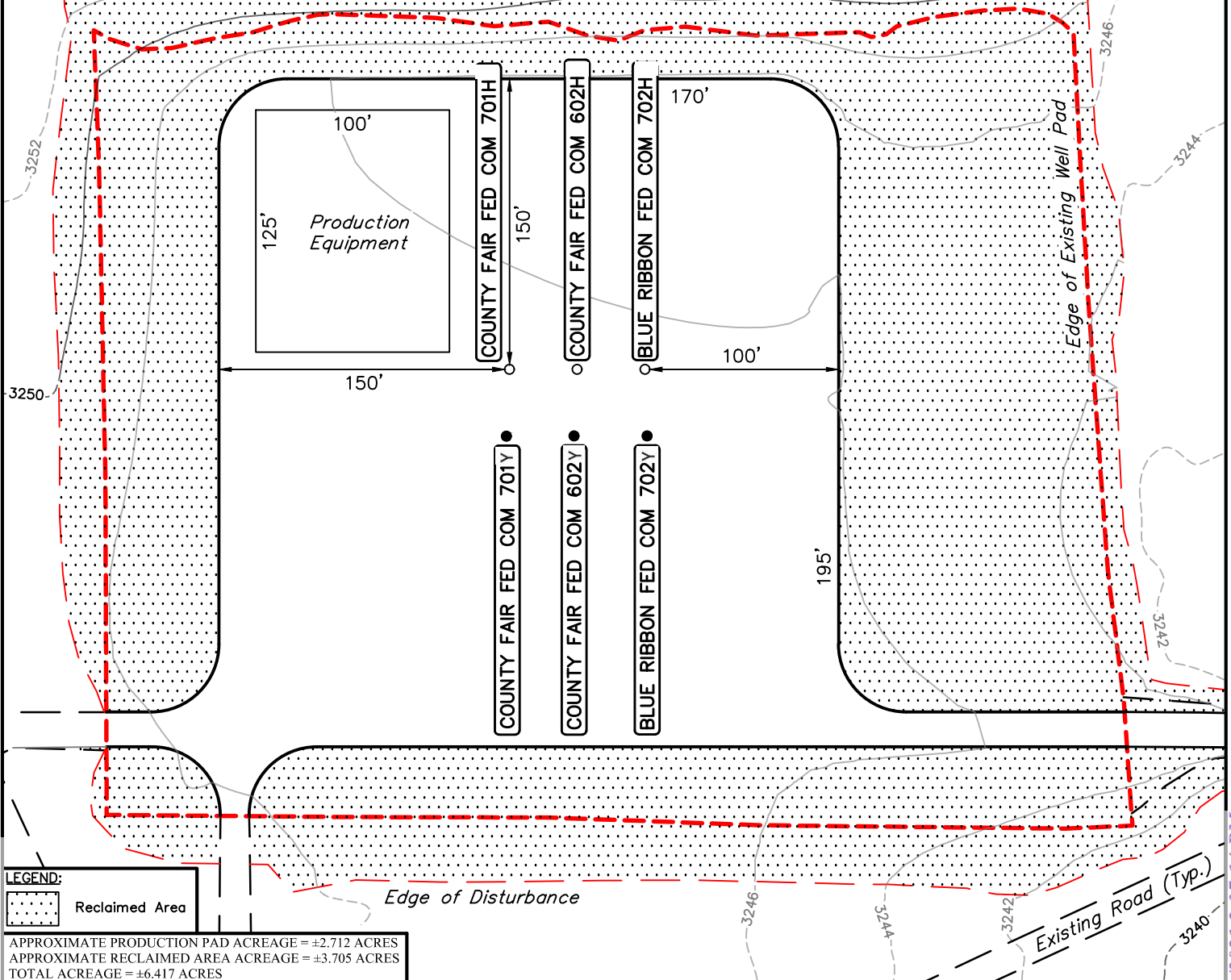


Existing
Well Pad

Section Line

Section 35,
T24S, R35E

Section 2,
T25S, R35E



LEGEND:
Reclaimed Area

APPROXIMATE PRODUCTION PAD ACREAGE = ±2.712 ACRES
APPROXIMATE RECLAIMED AREA ACREAGE = ±3.705 ACRES
TOTAL ACREAGE = ±6.417 ACRES

NOTES:
• Contours shown at 2' intervals.



FRANKLIN MOUNTAIN ENERGY LLC

CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1" = 80'
RECLAMATION DIAGRAM			



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BEGINNING AT THE INTERSECTION OF HIGHWAY 18 & HIGHWAY 128 FROM JAL, NEW MEXICO PROCEED IN A NORTHWESTERLY DIRECTION ALONG HIGHWAY 128 APPROXIMATELY 9.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE EXISTING LOCATION.

TOTAL DISTANCE FROM JAL, NEW MEXICO TO THE EXISTING WELL LOCATION IS APPROXIMATELY 10.5 MILES.

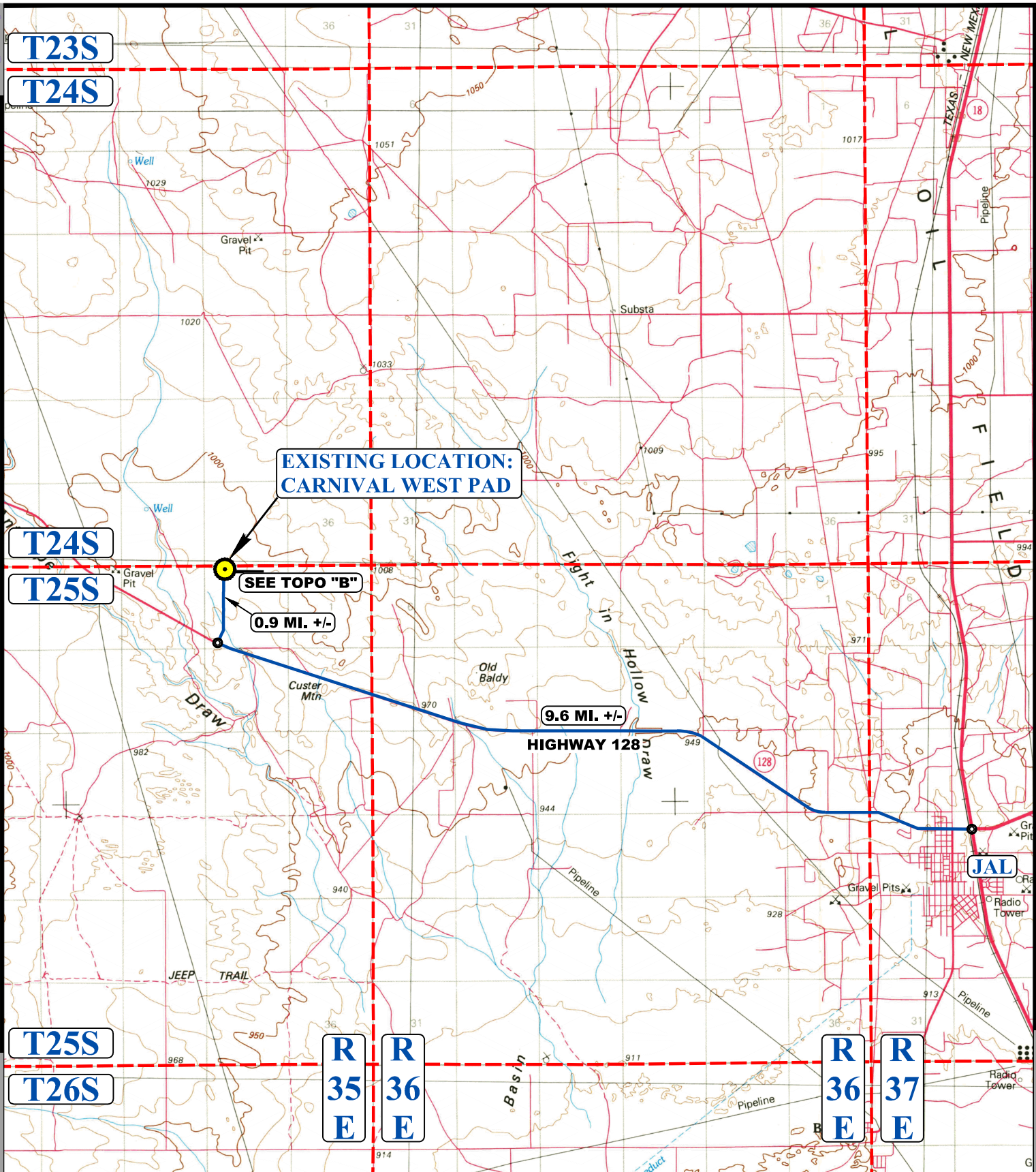
FRANKLIN MOUNTAIN ENERGY LLC

**CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO**

SURVEYED BY	B.B., R.C., M.D.	06-11-21	
DRAWN BY	D.P.	08-10-21	
ROAD DESCRIPTION			



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LEGEND:

 EXISTING LOCATION



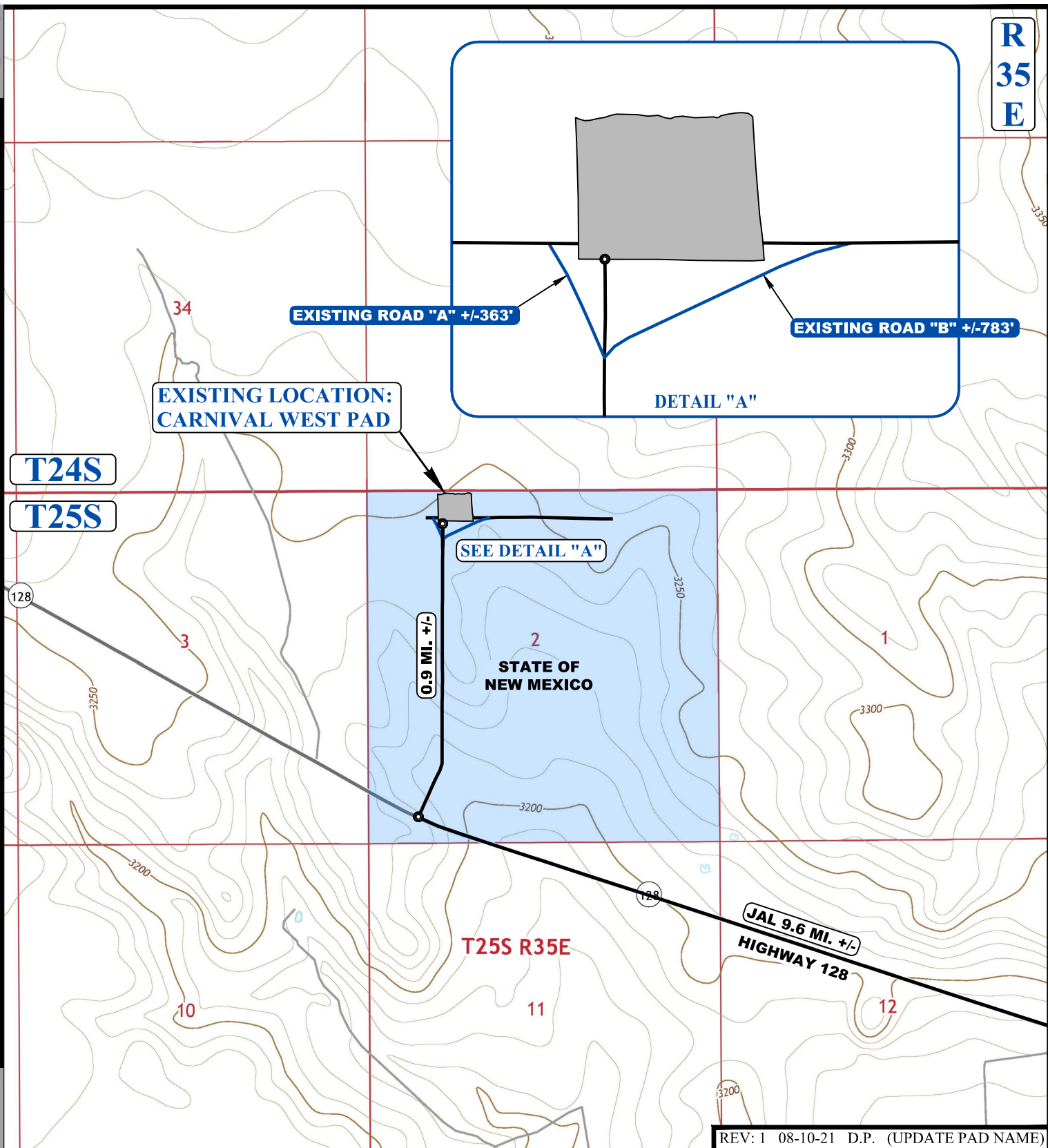
FRANKLIN MOUNTAIN ENERGY LLC

CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



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SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1 : 100,000
ACCESS ROAD MAP			TOPO A



NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- EXISTING ROAD RE-ROUTE



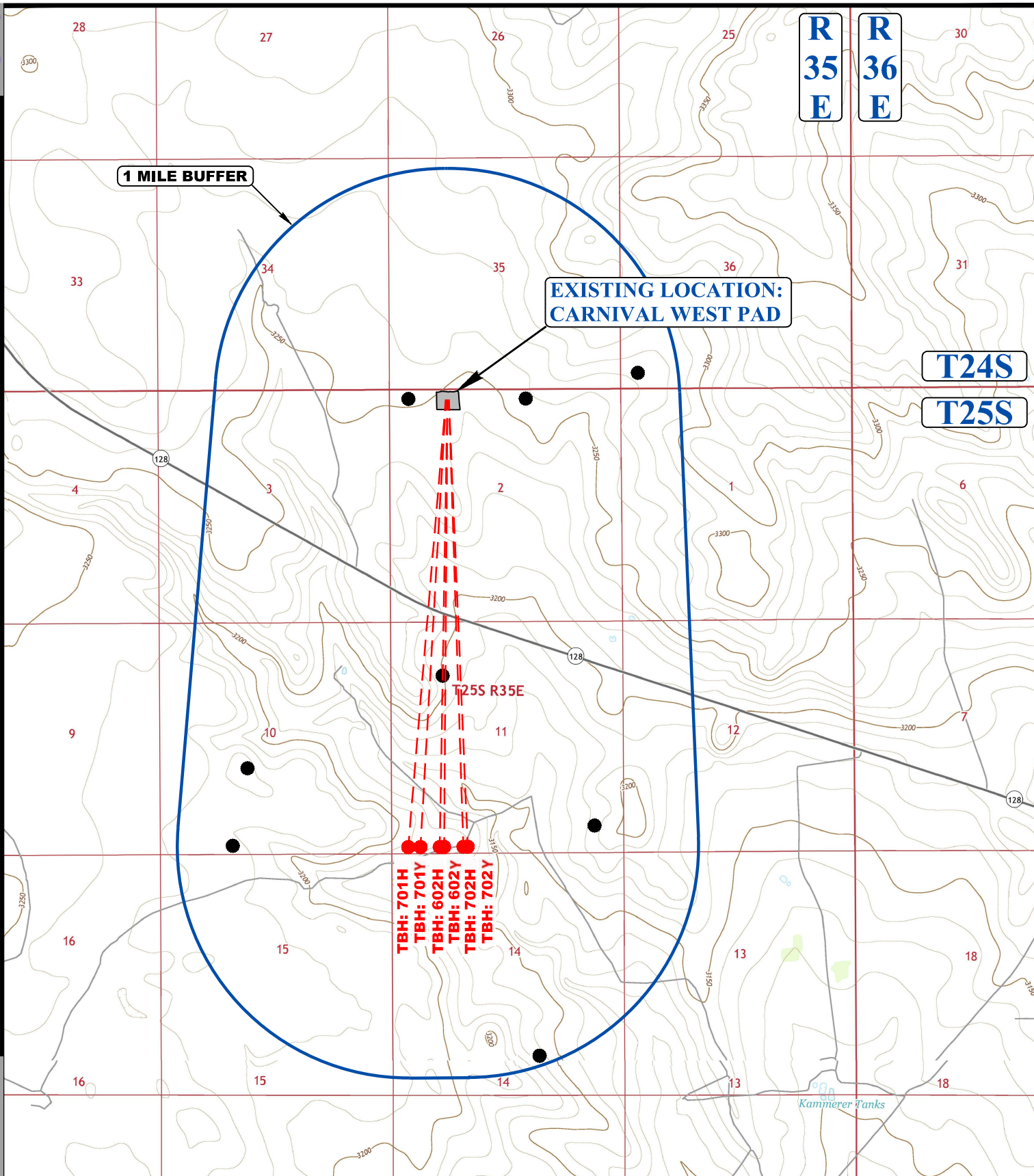
FRANKLIN MOUNTAIN ENERGY LLC

CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	R.T.	10-03-17	1 : 24,000
ACCESS ROAD MAP			TOPO B



UELS, LLC
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Vernal, UT 84078 * (435) 789-1017



LEGEND:

● EXISTING WELLS



FRANKLIN MOUNTAIN ENERGY LLC

CARNIVAL WEST PAD
LOTS 3 & 4, SECTION 2, T25S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	B.B., R.C., M.D.	06-11-21	SCALE
DRAWN BY	D.P.	08-10-21	1 : 36,000
WELL PROXIMITY MAP			TOPO C

UELS, LLC

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 Vernal, UT 84078 * (435) 789-1017





Blue Ribbon Fed Com 702H

1. Geologic name of surface location: Permian
2. Estimated tops of important geological markers:

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,246'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,406'	870'			Carbonates
Salado	1,633'	1,643'			Salt, Carbonate & Clastics
Base Salt	-473'	3,749'			Shaley Carbonate & Shale
Lamar	-1,848'	5,124'			Carbonate & Clastics
Bell Canyon	-1,974'	5,250'			Sandstone - oil/gas/water
Cherry Canyon	-2,821'	6,097'			Sandstone - oil/gas/water
Brushy Canyon	-4,199'	7,475'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,593'	8,869'			Shale/Carbonates - oil/gas
Avalon	-5,665'	8,941'			Shale/Carbonates - oil/gas
Chert Zone	-5,863'	9,139'			Carbonate/Chert
First Bone Spring Sand	-6,776'	10,052'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,847'	10,123'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,323'	10,599'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,894'	11,170'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,514'	11,790'			Sandstone - oil/gas/water
Wolfcamp	-8,747'	12,023'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,785'	12,061'			Overpressure Shale - Oil/Gas
HZ Target	-8,847'	12,123'			Overpressure Shale - Oil/Gas
Wolfcamp B	-8,999'	12,275'			Overpressure Shale - Oil/Gas

3. Estimated depth of anticipated fresh water, oil or gas:

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,250'	Oil
Bone Spring	10,052'	Oil
Wolfcamp	12,023'	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13 3/8" casing at 1,300' and circulating cement back to surface.

4. Casing Program:

All casing strings will be run new. Safety factors calculated assuming the well is vertical.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1300	1.18	1.67	4.99	5.32
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	5150	1.78	1.76	2.99	3.41
Intermediate 7 5/8"	29.7	HCP-110	8280	7150	827	Stinger 564	12100	1.10	1.26	1.80	1.23
Long string 5 1/2"	23	P-110	14520	14520	729	Eagle 606 TVD	22244 12084	1.32	1.39	1.19	0.99 1.60



7 5/8" casing will be set at 12,100' MD/11,995' TVD at 57° Inc. Stress calculations on 5 1/2" casing performed assuming 22,244' depth. Actual max vertical depth is 12,084'.

Cementing Program:

Cementing Stage tool can be placed in the 1st Intermediate string as a contingency to ensure required TOC to surface.

String Type	Hole Size	Casing Size	Setting Depth	Sacks	Type of cmt	Lead Yield ft ³ /sk	Water gal/sk	TOC ft	Sacks	Type of cmt	Tail Yield ft ³ /sk	Water gal/sk	TOC	Excess
Surf	17.5	13.375	1300	804	Extenda Cem, 12.8 ppg Class C, 3lb/sk Kol-Seal	1.728	9.06	0	331	Tail, 14.8 ppg, Class C,	1.364	6.51	1000	100%
Int1	12.25	9.625	5150	1505	0.125pps Poly-E-Flake Lead, 12.8 ppg, Class C 5% Salt,	1.79	9.74	0	154	1% CaCl ₂ , 0.125pps Celo-Flake Tail, 14.8 ppg, Class C,	1.33	6.37	4850	100%
Int2	8.75	7.625	12100	373	0.125 pps Poly-E-Flake, 3lb/sk Kol-Seal Lite Fill, 9.5 ppg, Class C 3lb/sk Bridgemaker Gel, 5% Salt, 5pps LCM, 0.25pps Cello-Flake	2.13	5.97	4150	94	NeoCem 14.8 ppg, Class C 0.25 pps Cello-Flake, 2% CaCl ₂	1.33	6.29	11100	50%
Prod	6.75	5.5	22244	831	Tail, 14.5 ppg, Gas Migration Control	1.34	6.22	11100						20%

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 1/2" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 5,000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the second intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The second intermediate casing will be tested to 2000 psi for 30 minutes prior to drillout.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.



6. Types and characteristics of the proposed mud system:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal. The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' – 12,100'	Brine	8.8-10.2	28-34	N/c
12,100' – 22,244' Lateral	Oil Base	10.0-12.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 10-12 ppg. In order to maintain hole stability, mud weights up to 12.5 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary well control and monitoring equipment:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

(D) A wear bushing will be installed in the wellhead prior to drilling out of the surface casing.

8. Logging, testing and coring program:

GR–CCL–CNL Will be run in cased hole during completions phase of operations.

Open-hole logs are not planned for this well.

9. Abnormal conditions, pressures, temperatures and potential hazards:

The estimated bottom-hole temperature at 12,084' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 7,854 psig (based on 12.5 ppg MW). Hydrogen sulfate may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

A. All personnel shall receive proper awareness H₂S training.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment

a. Well Control Equipment

i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.

ii. Choke manifold with a remotely operated hydraulic choke.

iii. Mud/gas separator

b. Protective equipment for essential personnel

i. Breathing Apparatus

1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.

2. Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity



3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.
- ii. Auxiliary Rescue Equipment
 1. Stretcher
 2. Two OSHA full body harnesses
 3. 100 feet of 5/8 inches OSHA approved rope
 4. 1-20# class ABC fire extinguisher
- c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 1. Rig Floor
 2. Below Rig Floor / Near BOPs
 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
- d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
- e. Mud Program
 - i. The Mud program will be designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H2S contingency plan is required for the proposed well. Based on concentrations of offset wells, proximity to main roads, and distance to populated areas, the radius of exposure created by a potential release was determined to be minimal and low enough to not necessitate an H2S contingency plan. This will be reevaluated during wellbore construction if H2S is observed and after the well is on production.

11. Anticipated starting date and duration of operations:

The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the “batch drilling” method may be used. A batch drilling sequence sundry will be submitted for BLM approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

**12. Disposal/environmental concerns:**

- (A) Drilled cuttings will be hauled to and disposed of in a state-certified disposal site.
- (B) Non-hazardous waste mud/cement from the drilling process will also be hauled to and disposed of in a state-certified disposal site.
- (C) Garbage will be hauled to the Pecos City Landfill.
- (D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 21 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5,000 psi.

After running the 2nd intermediate casing, and before drilling out, the wellhead, BOP, and related equipment will be tested to 10,000/250 psig.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

14. Additional variance requests**A. Casing.**

In order to minimize potential environmental and technical hazards, this well is planned with two intermediate strings of casing.

1. Variance is requested to wave the centralizer requirements for the 7 5/8" casing due to the tight clearance with 9 5/8" string.
2. Variance is requested to wave/reduce the centralizer requirements for the 5 1/2" casing due to the tight clearance with 6 3/4" hole and 5 1/2" casing due to tight clearances.

Released to Imaging: 9/21/2021 2:37:14 PM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: County Fair/Blue Ribbon
Well: Blue Ribbon Fed Com 702H
Wellbore: OH
Design: Plan #1

PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone



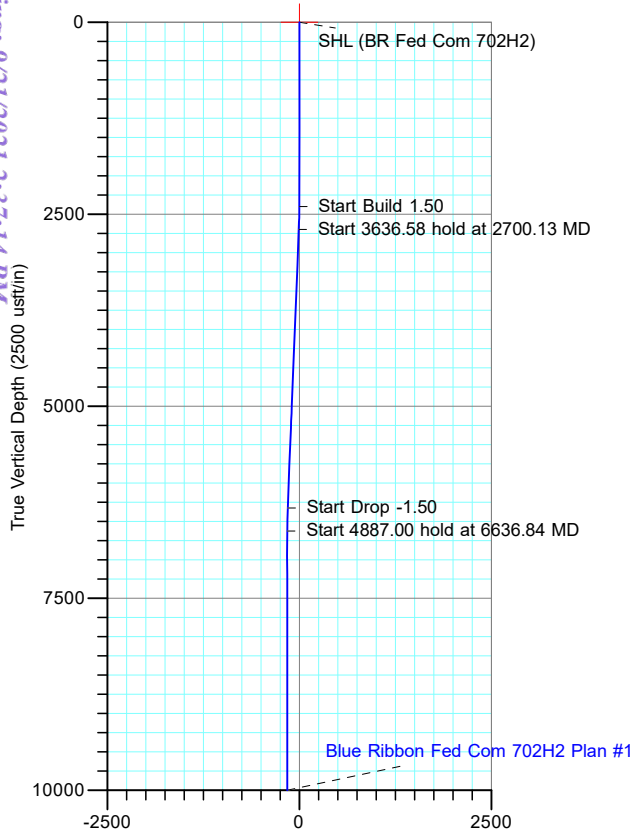
Azimuths to Grid North
True North: -0.53°
Magnetic North: 5.88°

Magnetic Field
Strength: 47464.9nT
Dip Angle: 59.88°
Date: 8/20/2021
Model: IGRF2020



Received by OCD: 9/17/2021 5:21:53 PM

3246.2' GE + 30' KB @ 3276.20usft

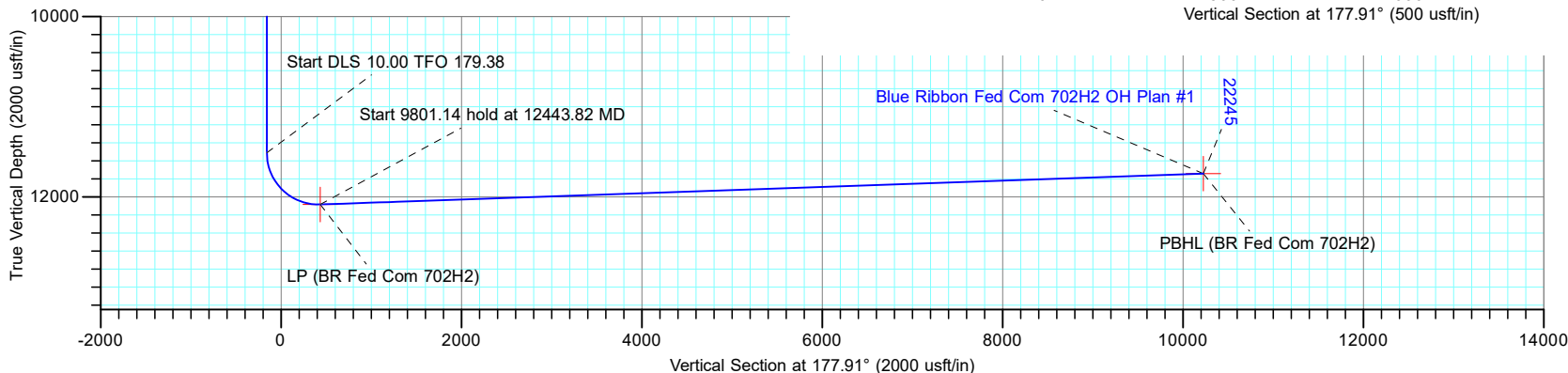
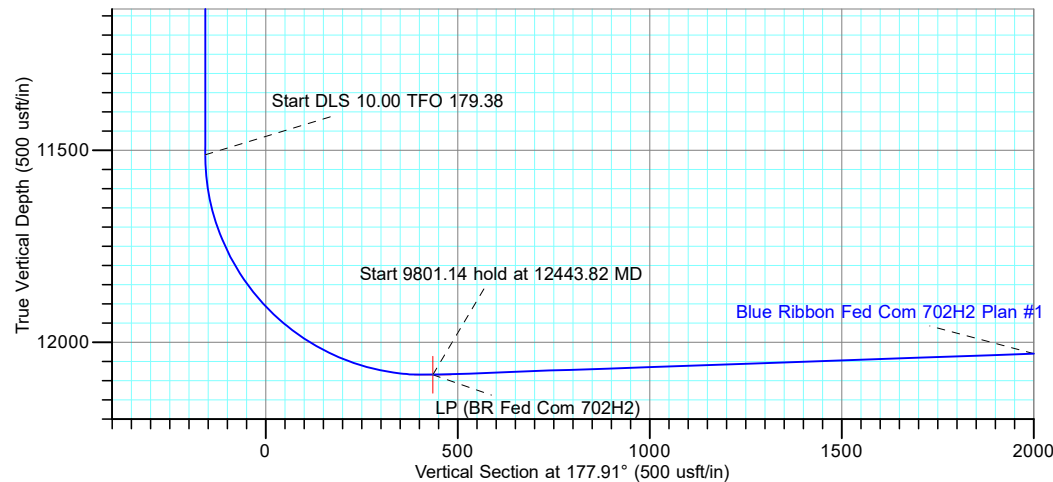


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2700.13	4.50	57.29	2699.82	6.37	9.92	1.50	57.29	-6.00	Start 3636.58 hold at 2700.13 MD
6336.71	4.50	57.29	6325.18	160.63	250.08	0.00	0.00	-151.41	Start Drop -1.50
6636.84	0.00	0.00	6625.00	167.00	260.00	1.50	180.00	-157.41	Start 4887.00 hold at 6636.84 MD
11523.84	0.00	0.00	11512.00	167.00	260.00	0.00	0.00	-157.41	Start DLS 10.00 TFO 179.38
12443.82	92.00	179.38	12084.61	-425.90	266.44	10.00	179.38	435.33	Start 9801.14 hold at 12443.82 MD
22244.96	92.00	179.38	11742.85	-10220.50	372.78	0.00	0.00	10227.30	TD at 22244.96

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
LP (BR Fed Com 702H2)	12084.61	-425.90	266.44	32.164955	-103.341620
PBHL (BR Fed Com 702H2)	11742.85	-10220.50	372.78	32.138031	-103.341568
SHL (BR Fed Com 702H2)	0.00	0.00	0.00	32.166132	-103.342468



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (Blue Ribbon Fed Com 702H2/OH)
County Fair/Blue Ribbon
Created By: Dustin Ault Date: 12:32, August 20 2021
Date: _____
Approved: _____ Date: _____

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Released to Imaging: 9/21/2021 2:37:14 PM

Franklin Mountain Energy

Project: Lea County, NM (NAD83)
Site: County Fair/Blue Ribbon
Well: Blue Ribbon Fed Com 702H2
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.53°
Magnetic North: 5.88°

Magnetic Field
Strength: 47464.9nT
Dip Angle: 59.88°
Date: 8/20/2021
Model: IGRF2020

PROJECT DETAILS: Lea County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

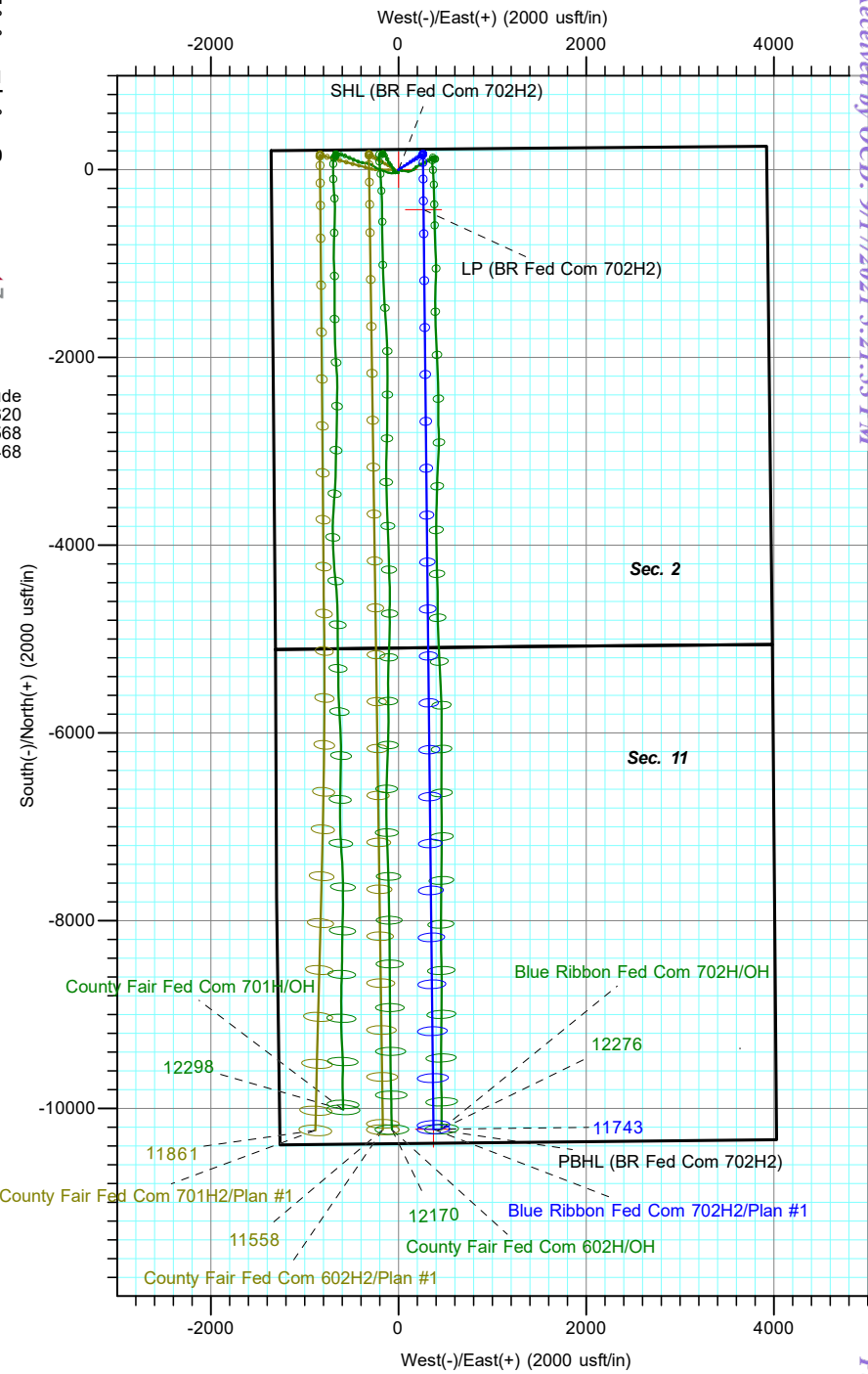
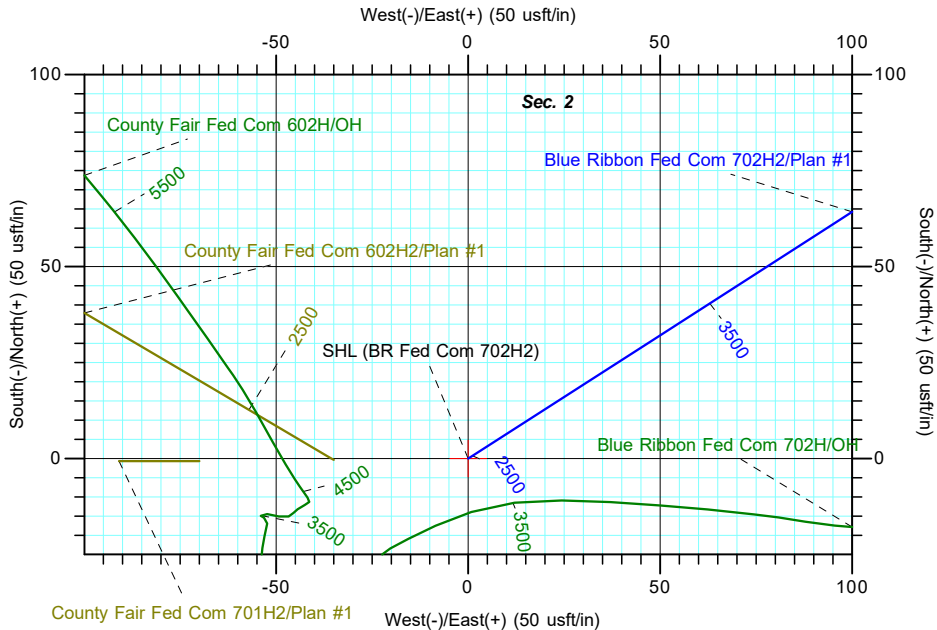


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (BR Fed Com 702H2)	12084.61	-425.90	266.44	425159.46	848211.77	32.164955	-103.341620
PBHL (BR Fed Com 702H2)	11742.85	-10220.50	372.78	415364.86	848318.11	32.138031	-103.341568
SHL (BR Fed Com 702H2)	0.00	0.00	0.00	425585.36	847945.33	32.166132	-103.342468

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2700.13	4.50	57.29	2699.82	6.37	9.92	1.50	57.29	-6.00	Start 3636.58 hold at 2700.13 MD
6336.71	4.50	57.29	6325.18	160.63	250.08	0.00	0.00	-151.41	Start Drop -1.50
6636.84	0.00	0.00	6625.00	167.00	260.00	1.50	180.00	-157.41	Start 4887.00 hold at 6636.84 MD
11523.84	0.00	0.00	11512.00	167.00	260.00	0.00	0.00	-157.41	Start DLS 10.00 TFO 179.38
12443.82	92.00	179.38	12084.61	-425.90	266.44	10.00	179.38	435.33	Start 9801.14 hold at 12443.82 MD
22244.96	92.00	179.38	11742.85-10220.50	372.78	0.00	0.00	10227.30		TD at 22244.96



TOTAL DIRECTIONAL SERVICES LLC

Plan: Plan #1 (Blue Ribbon Fed Com 702H2/OH)
County Fair/Blue Ribbon
Created By: Dustin Ault
Date: 12:29, August 20 2021
Approved: _____
Date: _____

Received by OCD: 9/17/2021 5:21:53 PM

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Franklin Mountain Energy

Lea County, NM (NAD83)
County Fair/Blue Ribbon
Blue Ribbon Fed Com 702H2

OH

Plan: Plan #1

Standard Planning Report

20 August, 2021





Total Directional Services Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	County Fair/Blue Ribbon				
Site Position:		Northing:	425,549.73 usft	Latitude:	32.166036
From:	Map	Easting:	847,875.66 usft	Longitude:	-103.342695
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.53

Well	Blue Ribbon Fed Com 702H2					
Well Position	+N/-S	35.63 usft	Northing:	425,585.36 usft	Latitude:	32.166132
	+E/-W	69.67 usft	Easting:	847,945.33 usft	Longitude:	-103.342469
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,246.20 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/20/2021	6.41	59.88	47,464.87953884

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	177.91

Plan Survey Tool Program	Date	8/20/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,244.74 Plan #1 (OH)	OWSG (Rev2) MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.13	4.50	57.29	2,699.82	6.37	9.92	1.50	1.50	0.00	57.29	
6,336.71	4.50	57.29	6,325.18	160.63	250.08	0.00	0.00	0.00	0.00	
6,636.84	0.00	0.00	6,625.00	167.00	260.00	1.50	-1.50	0.00	180.00	
11,523.84	0.00	0.00	11,512.00	167.00	260.00	0.00	0.00	0.00	0.00	
12,443.82	92.00	179.38	12,084.61	-425.90	266.44	10.00	10.00	19.50	179.38	
22,244.96	92.00	179.38	11,742.85	-10,220.50	372.78	0.00	0.00	0.00	0.00	PBHL (BR Fed Com 7



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (BR Fed Com 702H2)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
2,500.00	1.50	57.29	2,499.99	0.71	1.10	-0.67	1.50	1.50	0.00
2,600.00	3.00	57.29	2,599.91	2.83	4.40	-2.67	1.50	1.50	0.00
2,700.13	4.50	57.29	2,699.82	6.37	9.92	-6.00	1.50	1.50	0.00
Start 3636.58 hold at 2700.13 MD									
2,800.00	4.50	57.29	2,799.38	10.61	16.51	-10.00	0.00	0.00	0.00
2,900.00	4.50	57.29	2,899.07	14.85	23.12	-14.00	0.00	0.00	0.00
3,000.00	4.50	57.29	2,998.77	19.09	29.72	-17.99	0.00	0.00	0.00
3,100.00	4.50	57.29	3,098.46	23.33	36.32	-21.99	0.00	0.00	0.00
3,200.00	4.50	57.29	3,198.15	27.57	42.93	-25.99	0.00	0.00	0.00
3,300.00	4.50	57.29	3,297.84	31.82	49.53	-29.99	0.00	0.00	0.00
3,400.00	4.50	57.29	3,397.53	36.06	56.14	-33.99	0.00	0.00	0.00
3,500.00	4.50	57.29	3,497.22	40.30	62.74	-37.99	0.00	0.00	0.00
3,600.00	4.50	57.29	3,596.92	44.54	69.35	-41.98	0.00	0.00	0.00
3,700.00	4.50	57.29	3,696.61	48.78	75.95	-45.98	0.00	0.00	0.00
3,800.00	4.50	57.29	3,796.30	53.03	82.55	-49.98	0.00	0.00	0.00
3,900.00	4.50	57.29	3,895.99	57.27	89.16	-53.98	0.00	0.00	0.00
4,000.00	4.50	57.29	3,995.68	61.51	95.76	-57.98	0.00	0.00	0.00
4,100.00	4.50	57.29	4,095.37	65.75	102.37	-61.98	0.00	0.00	0.00
4,200.00	4.50	57.29	4,195.06	69.99	108.97	-65.97	0.00	0.00	0.00
4,300.00	4.50	57.29	4,294.76	74.23	115.58	-69.97	0.00	0.00	0.00
4,400.00	4.50	57.29	4,394.45	78.48	122.18	-73.97	0.00	0.00	0.00
4,500.00	4.50	57.29	4,494.14	82.72	128.78	-77.97	0.00	0.00	0.00
4,600.00	4.50	57.29	4,593.83	86.96	135.39	-81.97	0.00	0.00	0.00
4,700.00	4.50	57.29	4,693.52	91.20	141.99	-85.97	0.00	0.00	0.00
4,800.00	4.50	57.29	4,793.21	95.44	148.60	-89.96	0.00	0.00	0.00
4,900.00	4.50	57.29	4,892.90	99.69	155.20	-93.96	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.00	4.50	57.29	4,992.60	103.93	161.80	-97.96	0.00	0.00	0.00	
5,100.00	4.50	57.29	5,092.29	108.17	168.41	-101.96	0.00	0.00	0.00	
5,200.00	4.50	57.29	5,191.98	112.41	175.01	-105.96	0.00	0.00	0.00	
5,300.00	4.50	57.29	5,291.67	116.65	181.62	-109.96	0.00	0.00	0.00	
5,400.00	4.50	57.29	5,391.36	120.90	188.22	-113.96	0.00	0.00	0.00	
5,500.00	4.50	57.29	5,491.05	125.14	194.83	-117.95	0.00	0.00	0.00	
5,600.00	4.50	57.29	5,590.74	129.38	201.43	-121.95	0.00	0.00	0.00	
5,700.00	4.50	57.29	5,690.44	133.62	208.03	-125.95	0.00	0.00	0.00	
5,800.00	4.50	57.29	5,790.13	137.86	214.64	-129.95	0.00	0.00	0.00	
5,900.00	4.50	57.29	5,889.82	142.11	221.24	-133.95	0.00	0.00	0.00	
6,000.00	4.50	57.29	5,989.51	146.35	227.85	-137.95	0.00	0.00	0.00	
6,100.00	4.50	57.29	6,089.20	150.59	234.45	-141.94	0.00	0.00	0.00	
6,200.00	4.50	57.29	6,188.89	154.83	241.06	-145.94	0.00	0.00	0.00	
6,300.00	4.50	57.29	6,288.58	159.07	247.66	-149.94	0.00	0.00	0.00	
6,336.71	4.50	57.29	6,325.18	160.63	250.08	-151.41	0.00	0.00	0.00	
Start Drop -1.50										
6,400.00	3.55	57.29	6,388.31	163.03	253.82	-153.67	1.50	-1.50	0.00	
6,500.00	2.05	57.29	6,488.19	165.68	257.94	-156.16	1.50	-1.50	0.00	
6,600.00	0.55	57.29	6,588.16	166.90	259.85	-157.32	1.50	-1.50	0.00	
6,636.84	0.00	0.00	6,625.00	167.00	260.00	-157.41	1.50	-1.50	0.00	
Start 4887.00 hold at 6636.84 MD										
6,700.00	0.00	0.00	6,688.16	167.00	260.00	-157.41	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,788.16	167.00	260.00	-157.41	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,888.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,988.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,088.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,188.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,288.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,388.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,488.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,588.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,688.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,788.16	167.00	260.00	-157.41	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,888.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,988.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,088.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,188.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,288.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,388.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,488.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,588.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,688.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,788.16	167.00	260.00	-157.41	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,888.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,988.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,088.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,188.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,288.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,388.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,488.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,588.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,688.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,788.16	167.00	260.00	-157.41	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,888.16	167.00	260.00	-157.41	0.00	0.00	0.00	



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.00	0.00	0.00	9,988.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,100.00	0.00	0.00	10,088.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,200.00	0.00	0.00	10,188.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,300.00	0.00	0.00	10,288.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,400.00	0.00	0.00	10,388.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,500.00	0.00	0.00	10,488.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,600.00	0.00	0.00	10,588.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,700.00	0.00	0.00	10,688.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,800.00	0.00	0.00	10,788.16	167.00	260.00	-157.41	0.00	0.00	0.00
10,900.00	0.00	0.00	10,888.16	167.00	260.00	-157.41	0.00	0.00	0.00
11,000.00	0.00	0.00	10,988.16	167.00	260.00	-157.41	0.00	0.00	0.00
11,100.00	0.00	0.00	11,088.16	167.00	260.00	-157.41	0.00	0.00	0.00
11,200.00	0.00	0.00	11,188.16	167.00	260.00	-157.41	0.00	0.00	0.00
11,300.00	0.00	0.00	11,288.16	167.00	260.00	-157.41	0.00	0.00	0.00
11,400.00	0.00	0.00	11,388.16	167.00	260.00	-157.41	0.00	0.00	0.00
11,500.00	0.00	0.00	11,488.16	167.00	260.00	-157.41	0.00	0.00	0.00
11,523.84	0.00	0.00	11,512.00	167.00	260.00	-157.41	0.00	0.00	0.00
Start DLS 10.00 TFO 179.38									
11,550.00	2.62	179.38	11,538.15	166.40	260.01	-156.82	10.00	10.00	0.00
11,600.00	7.62	179.38	11,587.94	161.95	260.05	-152.36	10.00	10.00	0.00
11,650.00	12.62	179.38	11,637.15	153.17	260.15	-143.58	10.00	10.00	0.00
11,700.00	17.62	179.38	11,685.40	140.13	260.29	-130.55	10.00	10.00	0.00
11,750.00	22.62	179.38	11,732.34	122.94	260.48	-113.37	10.00	10.00	0.00
11,800.00	27.62	179.38	11,777.59	101.73	260.71	-92.16	10.00	10.00	0.00
11,850.00	32.62	179.38	11,820.83	76.65	260.98	-67.09	10.00	10.00	0.00
11,900.00	37.62	179.38	11,861.72	47.90	261.29	-38.34	10.00	10.00	0.00
11,950.00	42.62	179.38	11,899.94	15.69	261.64	-6.15	10.00	10.00	0.00
12,000.00	47.62	179.38	11,935.21	-19.72	262.03	29.26	10.00	10.00	0.00
12,050.00	52.62	179.38	11,967.27	-58.07	262.44	67.60	10.00	10.00	0.00
12,100.00	57.62	179.38	11,995.85	-99.07	262.89	108.59	10.00	10.00	0.00
12,150.00	62.62	179.38	12,020.76	-142.41	263.36	151.91	10.00	10.00	0.00
12,200.00	67.62	179.38	12,041.79	-187.75	263.85	197.24	10.00	10.00	0.00
12,250.00	72.62	179.38	12,058.79	-234.75	264.36	244.23	10.00	10.00	0.00
12,300.00	77.62	179.38	12,071.63	-283.06	264.89	292.52	10.00	10.00	0.00
12,350.00	82.62	179.38	12,080.21	-332.30	265.42	341.75	10.00	10.00	0.00
12,400.00	87.62	179.38	12,084.46	-382.09	265.96	391.54	10.00	10.00	0.00
12,443.82	92.00	179.38	12,084.61	-425.90	266.44	435.33	10.00	10.00	0.00
Start 9801.14 hold at 12443.82 MD - LP (BR Fed Com 702H2)									
12,500.00	92.00	179.38	12,082.65	-482.04	267.05	491.46	0.00	0.00	0.00
12,600.00	92.00	179.38	12,079.16	-581.98	268.13	591.36	0.00	0.00	0.00
12,700.00	92.00	179.38	12,075.68	-681.91	269.22	691.27	0.00	0.00	0.00
12,800.00	92.00	179.38	12,072.19	-781.84	270.30	791.18	0.00	0.00	0.00
12,900.00	92.00	179.38	12,068.70	-881.78	271.39	891.08	0.00	0.00	0.00
13,000.00	92.00	179.38	12,065.22	-981.71	272.47	990.99	0.00	0.00	0.00
13,100.00	92.00	179.38	12,061.73	-1,081.64	273.56	1,090.90	0.00	0.00	0.00
13,200.00	92.00	179.38	12,058.24	-1,181.58	274.64	1,190.80	0.00	0.00	0.00
13,300.00	92.00	179.38	12,054.76	-1,281.51	275.73	1,290.71	0.00	0.00	0.00
13,400.00	92.00	179.38	12,051.27	-1,381.44	276.81	1,390.62	0.00	0.00	0.00
13,500.00	92.00	179.38	12,047.78	-1,481.38	277.90	1,490.52	0.00	0.00	0.00
13,600.00	92.00	179.38	12,044.29	-1,581.31	278.98	1,590.43	0.00	0.00	0.00
13,700.00	92.00	179.38	12,040.81	-1,681.24	280.07	1,690.33	0.00	0.00	0.00
13,800.00	92.00	179.38	12,037.32	-1,781.18	281.15	1,790.24	0.00	0.00	0.00
13,900.00	92.00	179.38	12,033.83	-1,881.11	282.24	1,890.15	0.00	0.00	0.00
14,000.00	92.00	179.38	12,030.35	-1,981.04	283.32	1,990.05	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.00	92.00	179.38	12,026.86	-2,080.98	284.41	2,089.96	0.00	0.00	0.00
14,200.00	92.00	179.38	12,023.37	-2,180.91	285.49	2,189.87	0.00	0.00	0.00
14,300.00	92.00	179.38	12,019.89	-2,280.84	286.58	2,289.77	0.00	0.00	0.00
14,400.00	92.00	179.38	12,016.40	-2,380.78	287.66	2,389.68	0.00	0.00	0.00
14,500.00	92.00	179.38	12,012.91	-2,480.71	288.75	2,489.59	0.00	0.00	0.00
14,600.00	92.00	179.38	12,009.43	-2,580.64	289.83	2,589.49	0.00	0.00	0.00
14,700.00	92.00	179.38	12,005.94	-2,680.58	290.92	2,689.40	0.00	0.00	0.00
14,800.00	92.00	179.38	12,002.45	-2,780.51	292.00	2,789.31	0.00	0.00	0.00
14,900.00	92.00	179.38	11,998.96	-2,880.44	293.09	2,889.21	0.00	0.00	0.00
15,000.00	92.00	179.38	11,995.48	-2,980.38	294.17	2,989.12	0.00	0.00	0.00
15,100.00	92.00	179.38	11,991.99	-3,080.31	295.26	3,089.02	0.00	0.00	0.00
15,200.00	92.00	179.38	11,988.50	-3,180.24	296.34	3,188.93	0.00	0.00	0.00
15,300.00	92.00	179.38	11,985.02	-3,280.18	297.43	3,288.84	0.00	0.00	0.00
15,400.00	92.00	179.38	11,981.53	-3,380.11	298.51	3,388.74	0.00	0.00	0.00
15,500.00	92.00	179.38	11,978.04	-3,480.04	299.60	3,488.65	0.00	0.00	0.00
15,600.00	92.00	179.38	11,974.56	-3,579.98	300.68	3,588.56	0.00	0.00	0.00
15,700.00	92.00	179.38	11,971.07	-3,679.91	301.77	3,688.46	0.00	0.00	0.00
15,800.00	92.00	179.38	11,967.58	-3,779.84	302.85	3,788.37	0.00	0.00	0.00
15,900.00	92.00	179.38	11,964.09	-3,879.78	303.94	3,888.28	0.00	0.00	0.00
16,000.00	92.00	179.38	11,960.61	-3,979.71	305.02	3,988.18	0.00	0.00	0.00
16,100.00	92.00	179.38	11,957.12	-4,079.64	306.11	4,088.09	0.00	0.00	0.00
16,200.00	92.00	179.38	11,953.63	-4,179.58	307.19	4,188.00	0.00	0.00	0.00
16,300.00	92.00	179.38	11,950.15	-4,279.51	308.28	4,287.90	0.00	0.00	0.00
16,400.00	92.00	179.38	11,946.66	-4,379.44	309.36	4,387.81	0.00	0.00	0.00
16,500.00	92.00	179.38	11,943.17	-4,479.38	310.45	4,487.72	0.00	0.00	0.00
16,600.00	92.00	179.38	11,939.69	-4,579.31	311.53	4,587.62	0.00	0.00	0.00
16,700.00	92.00	179.38	11,936.20	-4,679.24	312.62	4,687.53	0.00	0.00	0.00
16,800.00	92.00	179.38	11,932.71	-4,779.18	313.70	4,787.43	0.00	0.00	0.00
16,900.00	92.00	179.38	11,929.23	-4,879.11	314.79	4,887.34	0.00	0.00	0.00
17,000.00	92.00	179.38	11,925.74	-4,979.04	315.87	4,987.25	0.00	0.00	0.00
17,100.00	92.00	179.38	11,922.25	-5,078.98	316.96	5,087.15	0.00	0.00	0.00
17,200.00	92.00	179.38	11,918.76	-5,178.91	318.04	5,187.06	0.00	0.00	0.00
17,300.00	92.00	179.38	11,915.28	-5,278.84	319.13	5,286.97	0.00	0.00	0.00
17,400.00	92.00	179.38	11,911.79	-5,378.78	320.21	5,386.87	0.00	0.00	0.00
17,500.00	92.00	179.38	11,908.30	-5,478.71	321.30	5,486.78	0.00	0.00	0.00
17,600.00	92.00	179.38	11,904.82	-5,578.64	322.38	5,586.69	0.00	0.00	0.00
17,700.00	92.00	179.38	11,901.33	-5,678.58	323.47	5,686.59	0.00	0.00	0.00
17,800.00	92.00	179.38	11,897.84	-5,778.51	324.55	5,786.50	0.00	0.00	0.00
17,900.00	92.00	179.38	11,894.36	-5,878.44	325.64	5,886.41	0.00	0.00	0.00
18,000.00	92.00	179.38	11,890.87	-5,978.38	326.72	5,986.31	0.00	0.00	0.00
18,100.00	92.00	179.38	11,887.38	-6,078.31	327.81	6,086.22	0.00	0.00	0.00
18,200.00	92.00	179.38	11,883.90	-6,178.24	328.89	6,186.12	0.00	0.00	0.00
18,300.00	92.00	179.38	11,880.41	-6,278.18	329.98	6,286.03	0.00	0.00	0.00
18,400.00	92.00	179.38	11,876.92	-6,378.11	331.06	6,385.94	0.00	0.00	0.00
18,500.00	92.00	179.38	11,873.43	-6,478.04	332.15	6,485.84	0.00	0.00	0.00
18,600.00	92.00	179.38	11,869.95	-6,577.98	333.23	6,585.75	0.00	0.00	0.00
18,700.00	92.00	179.38	11,866.46	-6,677.91	334.32	6,685.66	0.00	0.00	0.00
18,800.00	92.00	179.38	11,862.97	-6,777.84	335.40	6,785.56	0.00	0.00	0.00
18,900.00	92.00	179.38	11,859.49	-6,877.78	336.49	6,885.47	0.00	0.00	0.00
19,000.00	92.00	179.38	11,856.00	-6,977.71	337.57	6,985.38	0.00	0.00	0.00
19,100.00	92.00	179.38	11,852.51	-7,077.64	338.66	7,085.28	0.00	0.00	0.00
19,200.00	92.00	179.38	11,849.03	-7,177.58	339.74	7,185.19	0.00	0.00	0.00
19,300.00	92.00	179.38	11,845.54	-7,277.51	340.83	7,285.10	0.00	0.00	0.00
19,400.00	92.00	179.38	11,842.05	-7,377.44	341.91	7,385.00	0.00	0.00	0.00



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
19,500.00	92.00	179.38	11,838.57	-7,477.38	343.00	7,484.91	0.00	0.00	0.00	
19,600.00	92.00	179.38	11,835.08	-7,577.31	344.08	7,584.81	0.00	0.00	0.00	
19,700.00	92.00	179.38	11,831.59	-7,677.24	345.17	7,684.72	0.00	0.00	0.00	
19,800.00	92.00	179.38	11,828.10	-7,777.17	346.25	7,784.63	0.00	0.00	0.00	
19,900.00	92.00	179.38	11,824.62	-7,877.11	347.34	7,884.53	0.00	0.00	0.00	
20,000.00	92.00	179.38	11,821.13	-7,977.04	348.42	7,984.44	0.00	0.00	0.00	
20,100.00	92.00	179.38	11,817.64	-8,076.97	349.51	8,084.35	0.00	0.00	0.00	
20,200.00	92.00	179.38	11,814.16	-8,176.91	350.59	8,184.25	0.00	0.00	0.00	
20,300.00	92.00	179.38	11,810.67	-8,276.84	351.68	8,284.16	0.00	0.00	0.00	
20,400.00	92.00	179.38	11,807.18	-8,376.77	352.76	8,384.07	0.00	0.00	0.00	
20,500.00	92.00	179.38	11,803.70	-8,476.71	353.85	8,483.97	0.00	0.00	0.00	
20,600.00	92.00	179.38	11,800.21	-8,576.64	354.93	8,583.88	0.00	0.00	0.00	
20,700.00	92.00	179.38	11,796.72	-8,676.57	356.02	8,683.79	0.00	0.00	0.00	
20,800.00	92.00	179.38	11,793.23	-8,776.51	357.10	8,783.69	0.00	0.00	0.00	
20,900.00	92.00	179.38	11,789.75	-8,876.44	358.19	8,883.60	0.00	0.00	0.00	
21,000.00	92.00	179.38	11,786.26	-8,976.37	359.27	8,983.50	0.00	0.00	0.00	
21,100.00	92.00	179.38	11,782.77	-9,076.31	360.36	9,083.41	0.00	0.00	0.00	
21,200.00	92.00	179.38	11,779.29	-9,176.24	361.44	9,183.32	0.00	0.00	0.00	
21,300.00	92.00	179.38	11,775.80	-9,276.17	362.53	9,283.22	0.00	0.00	0.00	
21,400.00	92.00	179.38	11,772.31	-9,376.11	363.61	9,383.13	0.00	0.00	0.00	
21,500.00	92.00	179.38	11,768.83	-9,476.04	364.70	9,483.04	0.00	0.00	0.00	
21,600.00	92.00	179.38	11,765.34	-9,575.97	365.78	9,582.94	0.00	0.00	0.00	
21,700.00	92.00	179.38	11,761.85	-9,675.91	366.87	9,682.85	0.00	0.00	0.00	
21,800.00	92.00	179.38	11,758.37	-9,775.84	367.95	9,782.76	0.00	0.00	0.00	
21,900.00	92.00	179.38	11,754.88	-9,875.77	369.04	9,882.66	0.00	0.00	0.00	
22,000.00	92.00	179.38	11,751.39	-9,975.71	370.12	9,982.57	0.00	0.00	0.00	
22,100.00	92.00	179.38	11,747.90	-10,075.64	371.21	10,082.48	0.00	0.00	0.00	
22,200.00	92.00	179.38	11,744.42	-10,175.57	372.29	10,182.38	0.00	0.00	0.00	
22,244.96	92.00	179.38	11,742.85	-10,220.50	372.78	10,227.30	0.00	0.00	0.00	
TD at 22244.96 - PBHL (BR Fed Com 702H2)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL (BR Fed Com 702H- - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	425,585.36	847,945.33	32.166132	-103.342469
PBHL (BR Fed Com 702 - plan hits target center - Point	0.00	0.00	11,742.85	-10,220.50	372.78	415,364.86	848,318.11	32.138031	-103.341568
LP (BR Fed Com 702H2 - plan hits target center - Point	0.00	0.00	12,084.61	-425.90	266.44	425,159.46	848,211.77	32.164955	-103.341620



Total Directional Services

Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Company:	Franklin Mountain Energy	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Project:	Lea County, NM (NAD83)	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site:	County Fair/Blue Ribbon	North Reference:	Grid
Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,400.00	2,400.00	0.00	0.00	Start Build 1.50
2,700.13	2,699.82	6.37	9.92	Start 3636.58 hold at 2700.13 MD
6,336.71	6,325.18	160.63	250.08	Start Drop -1.50
6,636.84	6,625.00	167.00	260.00	Start 4887.00 hold at 6636.84 MD
11,523.84	11,512.00	167.00	260.00	Start DLS 10.00 TFO 179.38
12,443.82	12,084.61	-425.90	266.44	Start 9801.14 hold at 12443.82 MD
22,244.96	11,742.85	-10,220.50	372.78	TD at 22244.96



Franklin Mountain Energy

Lea County, NM (NAD83)

County Fair/Blue Ribbon

Blue Ribbon Fed Com 702H2

OH

Plan #1

Anticollision Report

20 August, 2021





Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.00 usft	Error Surface:	Combined Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	8/20/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,244.74	Plan #1 (OH)	OWSG (Rev2) MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
County Fair/Blue Ribbon						
Blue Ribbon Fed Com 702H - OH - OH	723.19	723.11	32.61	29.23	9.634	CC
Blue Ribbon Fed Com 702H - OH - OH	900.00	899.77	33.15	28.86	7.740	ES
Blue Ribbon Fed Com 702H - OH - OH	13,600.00	13,523.25	115.05	47.64	1.707	SF
County Fair Fed Com 602H - OH - OH	115.03	114.83	49.42	49.17	202.420	CC, ES
County Fair Fed Com 602H - OH - OH	19,900.00	19,710.76	500.70	327.81	2.896	SF
County Fair Fed Com 602H2 - OH - Plan #1	2,000.00	2,000.00	34.99	25.18	3.567	CC, ES
County Fair Fed Com 602H2 - OH - Plan #1	22,244.96	22,058.67	569.77	337.70	2.455	SF
County Fair Fed Com 701H - OH - OH	0.00	0.00	78.25			
County Fair Fed Com 701H - OH - OH	100.00	99.27	78.42	78.15	289.530	ES
County Fair Fed Com 701H - OH - OH	22,100.00	22,110.00	1,108.68	891.39	5.102	SF
County Fair Fed Com 701H2 - OH - Plan #1	1,400.00	1,400.00	69.98	63.22	10.340	CC, ES
County Fair Fed Com 701H2 - OH - Plan #1	22,244.96	22,370.23	1,263.77	1,018.45	5.152	SF

Offset Design												Offset Site Error:	0.00 usft
County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH												Offset Well Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	179.48	-35.00	0.32	35.00				
100.00	100.00	99.75	99.75	0.13	0.20	179.44	-34.90	0.34	34.90	34.67	0.23	150.302	
200.00	200.00	200.02	200.01	0.48	0.55	-179.29	-34.67	-0.43	34.67	33.94	0.73	47.327	
300.00	300.00	300.03	300.02	0.84	0.91	-177.16	-34.24	-1.70	34.28	33.05	1.24	27.686	
400.00	400.00	400.10	400.07	1.20	1.27	-174.59	-33.78	-3.20	33.93	32.19	1.75	19.445	
500.00	500.00	500.03	499.98	1.56	1.63	-171.17	-32.98	-5.12	33.37	31.12	2.25	14.819	
600.00	600.00	599.99	599.91	1.92	1.98	-166.89	-31.92	-7.43	32.77	30.01	2.76	11.875	
700.00	700.00	699.95	699.84	2.28	2.34	-162.46	-31.12	-9.83	32.64	29.37	3.27	9.988	
723.19	723.19	723.11	722.99	2.36	2.43	-161.32	-30.89	-10.45	32.61	29.23	3.39	9.634	CC
800.00	800.00	799.78	799.63	2.63	2.70	-157.95	-30.44	-12.33	32.84	29.06	3.77	8.699	
900.00	900.00	899.77	899.59	2.99	3.06	-153.54	-29.67	-14.77	33.15	28.86	4.28	7.740	ES
1,000.00	1,000.00	999.76	999.54	3.35	3.42	-149.08	-29.40	-17.61	34.27	29.48	4.79	7.155	
1,100.00	1,100.00	1,099.71	1,099.46	3.71	3.78	-145.85	-29.20	-19.81	35.29	29.99	5.30	6.662	
1,200.00	1,200.00	1,199.63	1,199.36	4.07	4.14	-142.83	-29.19	-22.14	36.64	30.84	5.80	6.314	
1,300.00	1,300.00	1,299.58	1,299.28	4.43	4.43	-140.25	-29.04	-24.15	37.77	31.51	6.26	6.035	
1,400.00	1,400.00	1,399.44	1,399.12	4.79	4.51	-137.83	-29.18	-26.43	39.38	32.81	6.57	5.991	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
1,500.00	1,500.00	1,499.54	1,499.19	5.14	4.56	-135.98	-29.52	-28.53	41.06	34.19	6.87	5.979		
1,600.00	1,600.00	1,599.83	1,599.48	5.50	4.63	-135.79	-30.25	-29.43	42.21	35.03	7.18	5.875		
1,700.00	1,700.00	1,700.03	1,699.67	5.86	4.72	-136.28	-30.87	-29.52	42.71	35.19	7.52	5.679		
1,800.00	1,800.00	1,800.08	1,799.72	6.22	4.84	-137.01	-31.40	-29.28	42.94	35.06	7.87	5.453		
1,900.00	1,900.00	1,900.12	1,899.76	6.58	4.98	-137.81	-31.91	-28.93	43.07	34.83	8.24	5.225		
2,000.00	2,000.00	2,000.08	1,999.72	6.94	5.14	-138.48	-32.35	-28.64	43.21	34.58	8.63	5.008		
2,100.00	2,100.00	2,100.13	2,099.77	7.29	5.32	-139.14	-32.78	-28.35	43.34	34.32	9.02	4.803		
2,200.00	2,200.00	2,200.24	2,199.88	7.65	5.51	-139.65	-32.98	-28.02	43.27	33.85	9.43	4.590		
2,300.00	2,300.00	2,300.32	2,299.96	8.01	5.72	-139.94	-32.92	-27.68	43.01	33.17	9.84	4.371		
2,400.00	2,400.00	2,400.41	2,400.05	8.37	5.94	-140.42	-32.78	-27.10	42.53	32.27	10.26	4.145		
2,424.62	2,424.62	2,425.04	2,424.68	8.46	6.00	162.22	-32.72	-26.94	42.46	32.09	10.36	4.097		
2,500.00	2,499.99	2,500.50	2,500.14	8.72	6.17	162.52	-32.41	-26.50	43.11	32.43	10.68	4.036		
2,600.00	2,599.91	2,600.62	2,600.25	9.08	6.41	163.95	-31.65	-25.84	45.87	34.76	11.11	4.129		
2,700.13	2,699.82	2,700.69	2,700.31	9.43	6.66	166.23	-30.51	-25.13	50.88	39.34	11.54	4.409		
2,800.00	2,799.38	2,800.33	2,799.94	9.78	6.92	168.50	-29.26	-24.50	57.19	45.22	11.98	4.776		
2,900.00	2,899.07	2,900.18	2,899.78	10.14	7.19	170.64	-27.74	-24.09	63.58	51.16	12.42	5.120		
3,000.00	2,998.77	3,000.53	3,000.11	10.50	7.47	172.33	-26.01	-23.32	69.64	56.78	12.86	5.413		
3,100.00	3,098.46	3,101.59	3,101.12	10.86	7.75	173.28	-23.94	-21.16	74.48	61.17	13.31	5.594		
3,200.00	3,198.15	3,203.45	3,202.84	11.22	8.05	173.29	-21.41	-16.63	77.27	63.51	13.76	5.615		
3,300.00	3,297.84	3,305.52	3,304.60	11.58	8.35	172.60	-17.88	-9.39	77.39	63.19	14.20	5.450		
3,400.00	3,397.53	3,406.81	3,405.33	11.94	8.65	170.83	-13.97	0.45	75.29	60.64	14.65	5.139		
3,500.00	3,497.22	3,506.40	3,504.18	12.30	8.96	167.06	-11.46	12.25	72.66	57.53	15.13	4.803		
3,600.00	3,596.92	3,605.59	3,602.53	12.67	9.27	161.38	-10.88	25.09	71.16	55.54	15.62	4.556		
3,659.90	3,656.63	3,665.17	3,661.57	12.89	9.46	157.42	-11.12	33.08	70.93	55.02	15.92	4.456		
3,700.00	3,696.61	3,705.02	3,701.05	13.03	9.59	154.63	-11.43	38.53	71.04	54.93	16.12	4.408		
3,800.00	3,796.30	3,804.42	3,799.53	13.40	9.92	147.84	-12.35	51.93	72.27	55.65	16.62	4.349		
3,900.00	3,895.99	3,903.78	3,898.05	13.77	10.25	141.67	-13.46	64.86	74.82	57.69	17.12	4.369		
4,000.00	3,995.68	4,003.15	3,996.56	14.13	10.59	135.90	-14.93	77.79	78.53	60.90	17.63	4.455		
4,100.00	4,095.37	4,102.80	4,095.05	14.50	10.94	129.23	-17.11	92.77	83.42	65.28	18.14	4.599		
4,200.00	4,195.06	4,204.10	4,194.89	14.87	11.31	122.07	-18.23	109.85	88.23	69.56	18.66	4.728		
4,300.00	4,294.76	4,306.75	4,296.21	15.24	11.68	116.06	-16.32	126.14	91.19	72.00	19.19	4.752		
4,400.00	4,394.45	4,409.06	4,397.45	15.61	12.05	111.52	-11.23	140.06	91.53	71.82	19.70	4.646		
4,500.00	4,494.14	4,509.81	4,497.35	15.98	12.41	108.40	-4.73	151.27	90.36	70.14	20.21	4.470		
4,600.00	4,593.83	4,609.89	4,596.86	16.35	12.76	106.81	1.46	159.93	89.02	68.29	20.72	4.296		
4,700.00	4,693.52	4,709.93	4,696.45	16.72	13.12	106.01	7.38	167.32	87.62	66.39	21.23	4.127		
4,800.00	4,793.21	4,809.79	4,795.93	17.09	13.46	105.74	13.03	173.91	86.27	64.53	21.74	3.968		
4,900.00	4,892.90	4,909.85	4,895.75	17.46	13.81	106.77	18.05	178.69	85.00	62.76	22.24	3.821		
5,000.00	4,992.60	5,010.13	4,995.80	17.83	14.16	107.97	23.26	183.22	83.53	60.79	22.75	3.672		
5,100.00	5,092.29	5,110.00	5,095.28	18.20	14.51	107.83	29.18	189.58	81.84	58.58	23.26	3.519		
5,200.00	5,191.98	5,209.31	5,194.04	18.57	14.87	106.17	35.15	198.07	80.66	56.88	23.78	3.392		
5,269.15	5,260.92	5,277.98	5,262.34	18.83	15.12	104.94	38.77	204.20	80.45	56.31	24.14	3.333		
5,300.00	5,291.67	5,308.66	5,292.88	18.94	15.23	104.48	40.23	206.84	80.49	56.19	24.30	3.312		
5,400.00	5,391.36	5,408.45	5,392.18	19.32	15.60	103.04	44.75	215.47	80.88	56.06	24.82	3.258		
5,500.00	5,491.05	5,508.40	5,491.64	19.69	15.96	101.42	49.26	224.41	81.44	56.10	25.34	3.214		
5,600.00	5,590.74	5,608.44	5,591.16	20.06	16.33	99.68	53.91	233.52	82.01	56.14	25.86	3.171		
5,700.00	5,690.44	5,708.33	5,690.51	20.43	16.70	97.94	58.58	242.66	82.65	56.26	26.39	3.132		
5,800.00	5,790.13	5,808.16	5,789.83	20.81	17.07	96.30	63.02	251.77	83.55	56.64	26.91	3.105		
5,900.00	5,889.82	5,908.13	5,889.28	21.18	17.45	94.66	67.46	260.96	84.56	57.13	27.43	3.083		
6,000.00	5,989.51	6,008.12	5,988.75	21.55	17.82	93.16	71.84	270.03	85.62	57.67	27.95	3.063		
6,100.00	6,089.20	6,108.08	6,088.15	21.93	18.20	91.31	76.52	279.58	86.74	58.27	28.47	3.047		
6,200.00	6,188.89	6,208.20	6,187.63	22.30	18.57	89.14	81.55	289.61	87.91	58.92	28.99	3.032		
6,300.00	6,288.58	6,308.42	6,287.18	22.67	18.96	86.71	87.11	299.86	88.91	59.40	29.51	3.013		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND													Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
				(usft)	(usft)	(°)										
6,336.71	6,325.18	6,345.21	6,323.72	22.81	19.10	85.82	89.23	303.59	89.23	59.53	29.70	3.004				
6,400.00	6,388.31	6,408.59	6,386.66	23.05	19.34	83.93	93.00	310.01	89.79	59.77	30.03	2.991				
6,500.00	6,488.19	6,508.35	6,485.71	23.41	19.72	79.59	99.13	320.16	91.13	60.61	30.52	2.986				
6,600.00	6,588.16	6,607.99	6,584.64	23.77	20.10	73.84	105.32	330.33	93.66	62.68	30.98	3.023				
6,636.84	6,625.00	6,644.60	6,621.00	23.90	20.24	128.76	107.57	334.01	95.00	63.86	31.14	3.050				
6,700.00	6,688.16	6,707.37	6,683.35	24.12	20.48	124.82	111.24	340.17	97.76	66.34	31.42	3.112				
6,800.00	6,788.16	6,807.96	6,783.50	24.47	20.86	120.14	115.63	348.49	102.42	70.55	31.87	3.214				
6,900.00	6,888.16	6,909.24	6,884.59	24.81	21.23	117.58	117.87	354.05	106.16	73.82	32.34	3.283				
7,000.00	6,988.16	7,009.16	6,984.40	25.16	21.58	115.75	119.50	358.47	109.38	76.57	32.81	3.334				
7,100.00	7,088.16	7,109.10	7,084.24	25.51	21.94	114.08	121.06	362.79	112.65	79.37	33.28	3.384				
7,200.00	7,188.16	7,209.35	7,184.39	25.86	22.29	112.61	122.42	367.05	116.02	82.26	33.76	3.436				
7,300.00	7,288.16	7,311.95	7,286.94	26.21	22.64	111.80	123.11	369.72	118.17	83.94	34.24	3.452				
7,400.00	7,388.16	7,414.75	7,389.73	26.56	22.98	111.36	124.18	369.47	117.56	82.87	34.69	3.389				
7,500.00	7,488.16	7,514.34	7,489.31	26.91	23.29	111.11	125.27	368.10	115.89	80.72	35.17	3.295				
7,600.00	7,588.16	7,613.19	7,588.16	27.26	23.60	111.25	125.16	367.56	115.41	79.76	35.65	3.237				
7,700.00	7,688.16	7,713.11	7,688.08	27.61	23.91	111.44	124.85	367.33	115.31	79.18	36.13	3.191				
7,788.81	7,776.97	7,801.81	7,776.77	27.92	24.19	111.66	124.46	367.10	115.24	78.68	36.56	3.152				
7,800.00	7,788.16	7,812.97	7,787.94	27.96	24.23	111.69	124.41	367.08	115.24	78.63	36.61	3.148				
7,900.00	7,888.16	7,912.91	7,887.88	28.31	24.55	111.97	123.86	366.95	115.32	78.22	37.09	3.109				
8,000.00	7,988.16	8,012.77	7,987.73	28.67	24.87	112.30	123.19	366.80	115.43	77.86	37.58	3.072				
8,100.00	8,088.16	8,112.59	8,087.55	29.02	25.19	112.65	122.44	366.79	115.72	77.65	38.07	3.040				
8,200.00	8,188.16	8,212.29	8,187.24	29.37	25.51	113.09	121.44	366.89	116.20	77.64	38.55	3.014				
8,300.00	8,288.16	8,312.06	8,287.01	29.72	25.84	113.66	120.09	367.09	116.92	77.87	39.04	2.994				
8,400.00	8,388.16	8,411.71	8,386.64	30.07	26.16	114.36	118.38	367.38	117.88	78.35	39.54	2.982				
8,500.00	8,488.16	8,511.33	8,486.24	30.42	26.49	115.22	116.22	367.80	119.17	79.14	40.03	2.977				
8,600.00	8,588.16	8,611.24	8,586.13	30.78	26.82	115.81	114.47	368.64	120.69	80.17	40.52	2.978				
8,700.00	8,688.16	8,711.68	8,686.56	31.13	27.16	115.68	114.13	369.94	122.00	80.98	41.01	2.975				
8,800.00	8,788.16	8,811.65	8,786.51	31.48	27.51	115.15	114.67	371.47	123.15	81.65	41.50	2.967				
8,900.00	8,888.16	8,911.48	8,886.33	31.83	27.86	114.69	115.04	373.01	124.39	82.40	41.99	2.962				
9,000.00	8,988.16	9,011.30	8,986.14	32.19	28.20	114.56	114.72	374.37	125.77	83.28	42.48	2.960				
9,100.00	9,088.16	9,111.16	9,085.99	32.54	28.54	114.47	114.29	375.84	127.29	84.31	42.98	2.962				
9,200.00	9,188.16	9,211.05	9,185.87	32.89	28.89	114.55	113.46	377.19	128.86	85.39	43.47	2.964				
9,300.00	9,288.16	9,311.00	9,285.79	33.24	29.22	115.06	111.72	378.22	130.53	86.56	43.97	2.969				
9,400.00	9,388.16	9,411.65	9,386.42	33.60	29.56	115.62	109.92	379.05	132.04	87.58	44.46	2.970				
9,500.00	9,488.16	9,513.56	9,488.33	33.95	29.91	115.57	109.76	379.60	132.59	87.65	44.94	2.950				
9,600.00	9,588.16	9,614.04	9,588.80	34.30	30.25	115.08	111.08	379.49	131.93	86.51	45.42	2.905				
9,700.00	9,688.16	9,713.69	9,688.44	34.66	30.59	114.47	112.56	379.62	131.43	85.51	45.91	2.863				
9,773.01	9,761.17	9,786.23	9,760.97	34.92	30.83	113.92	113.78	380.01	131.28	85.01	46.27	2.837				
9,800.00	9,788.16	9,813.03	9,787.77	35.01	30.93	113.70	114.23	380.23	131.30	84.90	46.40	2.830				
9,900.00	9,888.16	9,911.78	9,886.49	35.37	31.27	112.77	115.95	381.62	131.91	85.02	46.89	2.813				
10,000.00	9,988.16	10,008.94	9,983.60	35.72	31.61	111.77	117.31	384.43	134.06	86.68	47.38	2.829				
10,100.00	10,088.16	10,106.75	10,081.32	36.07	31.96	111.14	117.24	388.66	138.11	90.25	47.86	2.886				
10,200.00	10,188.16	10,210.42	10,184.92	36.43	32.33	111.20	115.82	391.96	141.57	93.19	48.37	2.927				
10,300.00	10,288.16	10,312.20	10,286.69	36.78	32.68	111.30	115.07	393.20	142.97	94.10	48.87	2.926				
10,400.00	10,388.16	10,411.94	10,386.41	37.14	33.03	111.04	115.33	394.35	143.95	94.59	49.36	2.916				
10,500.00	10,488.16	10,512.38	10,486.85	37.49	33.37	110.93	115.19	395.49	145.06	95.20	49.86	2.910				
10,600.00	10,588.16	10,614.34	10,588.80	37.84	33.71	111.37	114.14	395.07	145.05	94.71	50.34	2.881				
10,700.00	10,688.16	10,715.95	10,690.40	38.20	34.04	111.74	113.66	393.76	144.02	93.21	50.81	2.834				
10,800.00	10,788.16	10,818.27	10,792.68	38.55	34.37	111.45	115.28	391.63	141.51	90.24	51.26	2.760				
10,900.00	10,888.16	10,921.10	10,895.38	38.91	34.71	110.36	119.33	388.47	137.23	85.55	51.68	2.655				
11,000.00	10,988.16	11,023.94	10,997.93	39.26	35.04	108.74	125.12	383.40	130.70	78.63	52.07	2.510				
11,100.00	11,088.16	11,126.19	11,099.78	39.62	35.37	108.14	129.19	375.42	122.02	69.59	52.44	2.327				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH													Offset Well Error:	0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND														
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,200.00	11,188.16	11,222.23	11,195.45	39.97	35.67	108.88	130.36	367.12	113.46	60.40	53.06	2.138		
11,300.00	11,288.16	11,315.98	11,289.08	40.33	35.97	110.17	129.23	362.80	109.53	55.82	53.71	2.039		
11,317.13	11,305.29	11,332.00	11,305.09	40.39	36.02	110.47	128.73	362.53	109.44	55.63	53.81	2.034		
11,400.00	11,388.16	11,413.90	11,386.93	40.68	36.29	112.05	125.78	361.79	109.83	55.59	54.23	2.025		
11,500.00	11,488.16	11,510.10	11,482.91	41.04	36.61	115.02	119.54	361.69	112.34	57.61	54.73	2.053		
11,523.84	11,512.00	11,532.39	11,505.06	41.12	36.68	116.14	117.06	361.76	113.56	58.73	54.83	2.071		
11,550.00	11,538.15	11,556.32	11,528.71	41.21	36.76	-61.70	113.40	361.76	115.10	60.20	54.91	2.096		
11,600.00	11,587.94	11,602.59	11,573.87	41.37	36.90	-58.80	103.38	361.39	117.87	62.87	54.99	2.143		
11,650.00	11,637.15	11,647.39	11,616.68	41.52	37.03	-56.16	90.26	360.59	120.24	65.33	54.91	2.190		
11,700.00	11,685.40	11,691.28	11,657.58	41.66	37.15	-53.98	74.37	360.12	122.69	68.06	54.63	2.246		
11,750.00	11,732.34	11,733.85	11,696.30	41.80	37.27	-52.62	56.70	360.60	125.29	71.13	54.15	2.313		
11,800.00	11,777.59	11,776.51	11,734.17	41.93	37.38	-52.41	37.23	362.94	128.37	74.70	53.67	2.392		
11,850.00	11,820.83	11,820.70	11,771.79	42.05	37.49	-52.46	14.21	365.59	131.26	77.93	53.32	2.462		
11,900.00	11,861.72	11,866.09	11,808.42	42.15	37.59	-52.54	-12.48	367.86	133.50	80.41	53.09	2.515		
11,950.00	11,899.94	11,912.98	11,844.78	42.25	37.70	-53.19	-42.01	369.92	134.45	81.37	53.07	2.533		
12,000.00	11,935.21	11,958.83	11,878.98	42.33	37.80	-54.53	-72.48	371.74	134.02	80.94	53.07	2.525		
12,050.00	11,967.27	12,002.93	11,910.18	42.41	37.90	-56.48	-103.56	373.98	133.22	80.14	53.08	2.510		
12,100.00	11,995.85	12,049.68	11,941.07	42.49	38.01	-58.96	-138.58	376.18	131.81	78.34	53.47	2.465		
12,150.00	12,020.76	12,096.75	11,970.43	42.59	38.14	-62.14	-175.32	377.67	129.08	75.02	54.06	2.388		
12,200.00	12,041.79	12,140.13	11,993.89	42.71	38.26	-64.86	-211.76	378.60	126.57	72.14	54.43	2.326		
12,250.00	12,058.79	12,184.20	12,012.30	42.84	38.40	-66.59	-251.77	379.19	124.97	70.26	54.71	2.284		
12,300.00	12,071.63	12,231.35	12,028.46	42.97	38.55	-68.58	-296.06	379.81	123.38	68.14	55.23	2.234		
12,350.00	12,080.21	12,279.39	12,043.93	43.10	38.71	-72.14	-341.53	380.70	121.15	65.03	56.11	2.159		
12,400.00	12,084.46	12,327.49	12,057.87	43.24	38.89	-77.02	-387.55	381.68	118.82	61.67	57.14	2.079		
12,443.82	12,084.61	12,370.03	12,068.73	43.36	39.05	-82.36	-428.67	382.18	116.83	58.88	57.95	2.016		
12,498.03	12,082.72	12,421.26	12,079.64	43.53	39.26	-88.57	-478.72	382.66	115.68	57.23	58.46	1.979		
12,500.00	12,082.65	12,423.09	12,079.99	43.54	39.27	-88.77	-480.51	382.69	115.68	57.22	58.46	1.979		
12,600.00	12,079.16	12,521.61	12,090.88	43.90	39.70	-95.76	-578.24	385.39	117.92	59.40	58.51	2.015		
12,700.00	12,075.68	12,621.92	12,086.33	44.32	40.18	-95.15	-678.38	388.77	120.10	60.91	59.19	2.029		
12,800.00	12,072.19	12,721.46	12,080.35	44.79	40.72	-93.87	-777.68	392.41	122.46	62.43	60.03	2.040		
12,900.00	12,068.70	12,822.03	12,076.35	45.31	41.32	-93.57	-878.10	395.78	124.70	63.86	60.83	2.050		
13,000.00	12,065.22	12,921.79	12,073.66	45.89	41.96	-93.85	-977.76	399.43	127.32	65.66	61.66	2.065		
13,100.00	12,061.73	13,027.09	12,070.78	46.52	42.70	-94.21	-1,083.01	400.34	127.13	64.66	62.47	2.035		
13,200.00	12,058.24	13,129.18	12,067.77	47.20	43.45	-94.56	-1,185.03	398.58	124.37	61.00	63.37	1.963		
13,300.00	12,054.76	13,229.41	12,064.33	47.93	44.24	-94.74	-1,285.16	395.60	120.32	55.95	64.37	1.869		
13,400.00	12,051.27	13,328.65	12,060.74	48.70	45.06	-94.81	-1,384.31	393.28	116.90	51.43	65.47	1.785		
13,500.00	12,047.78	13,425.88	12,058.48	49.51	45.91	-95.48	-1,481.49	391.84	114.46	47.87	66.59	1.719		
13,522.39	12,047.00	13,447.32	12,058.67	49.70	46.11	-95.96	-1,502.93	391.89	114.37	47.57	66.80	1.712		
13,600.00	12,044.29	13,523.25	12,059.89	50.37	46.81	-97.87	-1,578.84	392.91	115.05	47.64	67.41	1.707 SF		
13,700.00	12,040.81	13,621.90	12,060.68	51.26	47.76	-99.81	-1,677.45	395.53	117.25	49.02	68.23	1.718		
13,800.00	12,037.32	13,720.09	12,061.36	52.19	48.74	-101.51	-1,775.57	399.29	120.73	51.63	69.10	1.747		
13,900.00	12,033.83	13,819.21	12,060.59	53.15	49.77	-102.34	-1,874.54	404.53	125.41	55.18	70.22	1.786		
14,000.00	12,030.35	13,919.74	12,058.91	54.15	50.85	-102.70	-1,974.91	410.07	130.11	58.59	71.52	1.819		
14,100.00	12,026.86	14,020.39	12,059.72	55.18	51.96	-104.21	-2,075.46	414.28	134.13	61.69	72.44	1.852		
14,200.00	12,023.37	14,118.03	12,061.86	56.24	53.07	-106.07	-2,172.96	418.85	139.08	65.87	73.21	1.900		
14,300.00	12,019.89	14,220.39	12,063.71	57.33	54.26	-107.71	-2,275.19	423.87	144.29	70.27	74.02	1.949		
14,400.00	12,016.40	14,326.15	12,065.46	58.44	55.50	-109.76	-2,380.92	424.88	145.79	71.32	74.48	1.958		
14,500.00	12,012.91	14,426.95	12,064.93	59.58	56.70	-111.07	-2,481.71	424.47	145.42	70.19	75.23	1.933		
14,600.00	12,009.43	14,526.60	12,063.01	60.74	57.92	-111.77	-2,581.34	424.61	145.11	68.82	76.29	1.902		
14,646.47	12,007.80	14,572.76	12,062.70	61.29	58.48	-112.34	-2,627.51	424.52	145.05	68.40	76.65	1.892		
14,700.00	12,005.94	14,623.57	12,062.88	61.92	59.12	-113.09	-2,678.31	424.79	145.57	68.55	77.02	1.890		
14,800.00	12,002.45	14,720.85	12,064.19	63.13	60.35	-114.55	-2,775.55	427.20	148.79	71.12	77.67	1.916		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
14,900.00	11,998.96	14,822.33	12,064.94	64.35	61.65	-115.70	-2,876.98	430.32	152.39	73.90	78.49	1.942				
15,000.00	11,995.48	14,932.49	12,064.89	65.60	63.07	-117.28	-2,987.10	429.70	152.50	73.72	78.78	1.936				
15,100.00	11,991.99	15,033.98	12,066.26	66.86	64.38	-120.38	-3,088.34	422.86	147.96	70.13	77.83	1.901				
15,200.00	11,988.50	15,129.00	12,068.21	68.13	65.62	-123.36	-3,183.21	417.92	145.52	68.59	76.92	1.892				
15,206.71	11,988.27	15,134.23	12,068.38	68.22	65.69	-123.53	-3,188.43	417.74	145.51	68.62	76.89	1.892				
15,300.00	11,985.02	15,225.88	12,071.34	69.43	66.91	-126.29	-3,280.00	415.23	146.16	70.16	76.00	1.923				
15,400.00	11,981.53	15,329.15	12,073.15	70.73	68.30	-128.93	-3,383.20	412.35	146.29	71.07	75.22	1.945				
15,500.00	11,978.04	15,428.41	12,074.06	72.06	69.64	-131.34	-3,482.41	409.08	145.78	71.27	74.51	1.956				
15,511.45	11,977.64	15,439.68	12,074.18	72.21	69.80	-131.61	-3,493.67	408.75	145.77	71.33	74.44	1.958				
15,600.00	11,974.56	15,527.61	12,074.93	73.39	71.00	-133.49	-3,581.58	406.75	146.18	72.17	74.01	1.975				
15,700.00	11,971.07	15,629.22	12,074.41	74.74	72.41	-135.17	-3,683.17	404.83	146.12	72.26	73.86	1.978				
15,787.30	11,968.02	15,715.80	12,072.73	75.93	73.61	-136.16	-3,769.72	403.56	145.54	71.50	74.04	1.966				
15,800.00	11,967.58	15,727.83	12,072.58	76.10	73.78	-136.30	-3,781.75	403.45	145.57	71.50	74.07	1.965				
15,900.00	11,964.09	15,825.00	12,072.91	77.47	75.15	-137.64	-3,878.92	403.29	147.50	73.33	74.17	1.989				
16,000.00	11,960.61	15,923.23	12,073.22	78.85	76.55	-138.69	-3,977.15	404.02	150.11	75.57	74.53	2.014				
16,100.00	11,957.12	16,018.53	12,075.59	80.24	77.92	-139.85	-4,072.39	405.88	155.20	80.39	74.81	2.074				
16,200.00	11,953.63	16,122.43	12,079.40	81.65	79.42	-141.04	-4,176.16	408.91	161.95	86.55	75.39	2.148				
16,300.00	11,950.15	16,220.41	12,079.25	83.06	80.85	-141.44	-4,274.11	411.10	165.29	89.04	76.25	2.168				
16,400.00	11,946.66	16,320.28	12,082.34	84.48	82.31	-142.38	-4,373.90	413.83	171.48	94.64	76.84	2.232				
16,500.00	11,943.17	16,422.15	12,083.95	85.90	83.80	-143.17	-4,475.74	415.88	176.08	98.54	77.54	2.271				
16,600.00	11,939.69	16,523.77	12,085.17	87.34	85.30	-144.08	-4,577.34	416.97	179.85	101.77	78.07	2.304				
16,700.00	11,936.20	16,623.76	12,086.28	88.78	86.77	-145.15	-4,677.33	417.18	183.09	104.68	78.41	2.335				
16,800.00	11,932.71	16,719.00	12,088.18	90.23	88.18	-146.11	-4,772.54	418.00	187.50	108.79	78.71	2.382				
16,900.00	11,929.23	16,816.40	12,091.09	91.69	89.64	-146.78	-4,869.87	420.58	193.76	114.39	79.37	2.441				
17,000.00	11,925.74	16,909.06	12,095.29	93.15	91.04	-147.01	-4,962.29	425.47	202.76	122.48	80.28	2.526				
17,100.00	11,922.25	17,021.58	12,098.66	94.62	92.74	-147.40	-5,074.66	429.74	209.59	127.88	81.71	2.565				
17,200.00	11,918.76	17,119.54	12,099.41	96.10	94.22	-147.64	-5,172.57	432.39	214.06	131.38	82.68	2.589				
17,300.00	11,915.28	17,212.07	12,102.14	97.58	95.62	-147.84	-5,264.98	436.26	221.14	137.58	83.56	2.646				
17,400.00	11,911.79	17,312.95	12,107.24	99.06	97.16	-148.08	-5,365.59	441.63	230.64	145.87	84.77	2.721				
17,500.00	11,908.30	17,419.65	12,107.24	100.56	98.80	-147.56	-5,472.10	447.60	235.90	149.17	86.74	2.720				
17,600.00	11,904.82	17,517.05	12,107.64	102.05	100.29	-147.05	-5,569.32	453.61	241.92	153.46	88.46	2.735				
17,700.00	11,901.33	17,625.48	12,108.69	103.55	101.96	-147.15	-5,677.67	457.39	247.02	157.15	89.87	2.749				
17,800.00	11,897.84	17,737.81	12,105.07	105.06	103.68	-147.22	-5,789.92	458.46	247.15	156.01	91.15	2.712				
17,828.86	11,896.84	17,761.05	12,104.04	105.50	104.03	-147.26	-5,813.14	458.35	246.71	155.35	91.36	2.700				
17,900.00	11,894.36	17,811.82	12,104.88	106.57	104.81	-147.64	-5,863.88	458.66	249.63	158.28	91.35	2.733				
18,000.00	11,890.87	17,914.07	12,113.54	108.08	106.39	-149.16	-5,965.75	459.36	259.67	168.35	91.31	2.844				
18,100.00	11,887.38	18,009.34	12,119.89	109.60	107.85	-150.71	-6,060.79	457.79	267.12	176.19	90.93	2.938				
18,200.00	11,883.90	18,105.46	12,127.55	111.12	109.34	-151.87	-6,156.60	458.56	277.04	186.04	91.00	3.044				
18,300.00	11,880.41	18,217.71	12,134.56	112.65	111.08	-152.96	-6,268.62	459.48	285.58	193.91	91.68	3.115				
18,400.00	11,876.92	18,325.67	12,136.93	114.18	112.74	-154.11	-6,376.51	457.27	289.21	197.23	91.98	3.144				
18,500.00	11,873.43	18,410.33	12,140.44	115.71	114.05	-154.91	-6,461.09	456.73	295.31	203.31	92.00	3.210				
18,600.00	11,869.95	18,510.79	12,146.57	117.24	115.62	-155.82	-6,561.37	457.02	303.69	211.27	92.42	3.286				
18,700.00	11,866.46	18,608.77	12,152.20	118.78	117.15	-156.74	-6,659.18	456.69	311.59	218.84	92.74	3.360				
18,800.00	11,862.97	18,698.61	12,160.06	120.32	118.55	-157.47	-6,748.66	457.93	322.87	229.89	92.97	3.473				
18,900.00	11,859.49	18,812.73	12,166.27	121.87	120.33	-158.39	-6,862.58	457.67	330.39	236.53	93.86	3.520				
19,000.00	11,856.00	18,910.33	12,172.74	123.42	121.86	-159.12	-6,959.97	458.00	339.51	245.17	94.34	3.599				
19,100.00	11,852.51	19,009.97	12,176.40	124.96	123.43	-159.60	-7,059.53	458.69	346.08	251.00	95.08	3.640				
19,200.00	11,849.03	19,096.58	12,182.85	126.52	124.79	-160.06	-7,145.88	460.13	356.47	261.04	95.42	3.736				
19,300.00	11,845.54	19,205.95	12,192.25	128.07	126.51	-160.67	-7,254.83	461.93	368.15	271.71	96.44	3.817				
19,400.00	11,842.05	19,315.68	12,197.61	129.63	128.23	-161.57	-7,364.41	460.13	375.11	277.99	97.12	3.862				
19,500.00	11,838.57	19,413.61	12,201.90	131.19	129.77	-162.33	-7,462.23	458.43	381.72	284.14	97.58	3.912				
19,600.00	11,835.08	19,506.25	12,206.88	132.75	131.23	-162.99	-7,554.72	457.36	389.52	291.55	97.97	3.976				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - Blue Ribbon Fed Com 702H - OH - OH		Offset Site Error:		0.00 usft
Survey Program: 58-OWSG (Rev2) MWD, 1335-OWSG (Rev2) MWD, 22173-BLIND													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
19,700.00	11,831.59	19,626.66	12,211.96	134.31	133.12	-163.76	-7,675.01	455.89	396.36	297.32	99.03	4.002					
19,800.00	11,828.10	19,719.23	12,214.28	135.88	134.58	-164.18	-7,767.54	455.47	401.64	301.99	99.65	4.031					
19,900.00	11,824.62	19,831.11	12,214.30	137.45	136.35	-164.63	-7,879.41	454.53	404.35	303.69	100.67	4.017					
20,000.00	11,821.13	19,917.62	12,216.05	139.02	137.71	-165.14	-7,965.89	453.01	408.88	307.80	101.08	4.045					
20,100.00	11,817.64	20,013.70	12,219.20	140.59	139.23	-165.66	-8,061.91	451.87	414.86	313.16	101.70	4.079					
20,200.00	11,814.16	20,099.20	12,223.45	142.16	140.59	-165.88	-8,147.29	452.97	423.14	320.92	102.22	4.140					
20,300.00	11,810.67	20,179.73	12,230.85	143.74	141.88	-166.11	-8,227.45	454.62	435.61	333.13	102.48	4.251					
20,400.00	11,807.18	20,311.76	12,239.70	145.31	143.98	-166.52	-8,359.14	456.11	445.24	340.84	104.40	4.265					
20,500.00	11,803.70	20,417.03	12,243.20	146.89	145.65	-166.89	-8,464.34	455.98	451.58	346.20	105.38	4.285					
20,600.00	11,800.21	20,517.40	12,245.76	148.47	147.25	-167.09	-8,564.68	456.87	457.41	351.06	106.35	4.301					
20,700.00	11,796.72	20,632.68	12,247.27	150.05	149.09	-167.09	-8,679.91	459.35	462.45	354.69	107.76	4.291					
20,800.00	11,793.23	20,735.59	12,244.70	151.63	150.74	-167.00	-8,782.77	461.48	463.61	354.65	108.96	4.255					
20,900.00	11,789.75	20,837.78	12,243.55	153.22	152.36	-167.28	-8,884.94	460.81	465.53	355.66	109.88	4.237					
21,000.00	11,786.26	20,927.39	12,243.15	154.80	153.78	-167.78	-8,974.51	458.14	467.66	357.25	110.41	4.236					
21,100.00	11,782.77	21,025.80	12,244.45	156.39	155.35	-168.25	-9,072.90	456.36	471.76	360.61	111.16	4.244					
21,200.00	11,779.29	21,122.21	12,245.56	157.98	156.89	-168.56	-9,169.30	455.64	475.93	363.98	111.95	4.251					
21,300.00	11,775.80	21,207.74	12,248.15	159.57	158.25	-168.90	-9,254.78	454.79	481.95	369.50	112.45	4.286					
21,400.00	11,772.31	21,312.50	12,252.95	161.16	159.93	-169.26	-9,359.43	454.51	489.63	376.18	113.45	4.316					
21,500.00	11,768.83	21,402.56	12,256.79	162.75	161.37	-169.53	-9,449.40	454.38	497.05	382.96	114.10	4.356					
21,600.00	11,765.34	21,515.28	12,261.77	164.35	163.18	-169.83	-9,562.01	454.58	504.70	389.34	115.36	4.375					
21,700.00	11,761.85	21,602.00	12,265.89	165.94	164.57	-170.00	-9,648.62	455.29	512.66	396.67	115.99	4.420					
21,800.00	11,758.37	21,710.32	12,271.06	167.54	166.32	-170.06	-9,756.79	457.46	520.99	403.71	117.28	4.442					
21,900.00	11,754.88	21,823.09	12,273.09	169.13	168.13	-169.97	-9,869.49	460.62	526.48	407.74	118.74	4.434					
22,000.00	11,751.39	21,928.00	12,273.85	170.73	169.82	-170.22	-9,974.40	460.10	530.35	410.58	119.76	4.428					
22,100.00	11,747.90	22,023.05	12,274.45	172.33	171.34	-170.55	-10,069.43	458.70	534.00	413.45	120.54	4.430					
22,200.00	11,744.42	22,126.89	12,275.85	173.93	173.97	-170.72	-10,173.26	459.09	538.67	416.81	121.86	4.421					
22,244.96	11,742.85	22,171.82	12,276.00	174.65	179.58	-170.77	-10,218.19	459.33	540.33	416.82	123.51	4.375					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	0.00	0.00	0.00	-135.52	-35.31	-34.67	49.49							
100.00	100.00	99.85	99.85	0.13	0.13	-135.35	-35.16	-34.74	49.43	49.25	0.18	274.889				
115.03	115.03	114.83	114.83	0.18	0.17	-135.29	-35.12	-34.76	49.42	49.17	0.24	202.420	CC, ES			
200.00	200.00	199.40	199.40	0.48	0.47	-134.81	-35.19	-35.43	49.94	49.27	0.67	74.369				
300.00	300.00	299.52	299.50	0.84	0.82	-133.22	-34.65	-36.87	50.60	49.42	1.18	42.945				
400.00	400.00	399.42	399.39	1.20	1.18	-131.77	-34.17	-38.25	51.29	49.61	1.68	30.445				
500.00	500.00	499.44	499.39	1.56	1.54	-130.02	-33.53	-39.93	52.14	49.95	2.19	23.789				
600.00	600.00	599.01	598.95	1.92	1.90	-128.14	-32.83	-41.81	53.16	50.46	2.70	19.705				
700.00	700.00	699.42	699.33	2.28	2.26	-126.19	-32.20	-44.01	54.53	51.33	3.21	17.010				
800.00	800.00	799.16	799.05	2.63	2.62	-124.57	-31.59	-45.83	55.67	51.95	3.71	14.996				
900.00	900.00	899.16	899.03	2.99	2.98	-123.09	-31.15	-47.80	57.06	52.84	4.22	13.523				
1,000.00	1,000.00	999.17	999.02	3.35	3.34	-121.94	-31.04	-49.79	58.68	53.96	4.73	12.417				
1,100.00	1,100.00	1,099.37	1,099.21	3.71	3.70	-120.95	-30.87	-51.49	60.04	54.80	5.23	11.473				
1,200.00	1,200.00	1,199.21	1,199.04	4.07	4.05	-120.47	-31.10	-52.85	61.33	55.59	5.74	10.688				
1,300.00	1,300.00	1,299.08	1,298.90	4.43	4.32	-119.99	-31.36	-54.33	62.74	56.56	6.18	10.149				
1,400.00	1,400.00	1,399.13	1,398.93	4.79	4.51	-120.03	-32.09	-55.52	64.14	57.57	6.57	9.764				
1,500.00	1,500.00	1,499.31	1,499.10	5.14	4.58	-120.35	-33.03	-56.40	65.37	58.49	6.88	9.499				
1,600.00	1,600.00	1,599.42	1,599.21	5.50	4.64	-120.53	-33.70	-57.13	66.33	59.14	7.19	9.224				
1,700.00	1,700.00	1,699.58	1,699.36	5.86	4.73	-120.69	-34.25	-57.71	67.10	59.58	7.52	8.920				
1,800.00	1,800.00	1,799.63	1,799.41	6.22	4.84	-120.97	-34.85	-58.06	67.71	59.84	7.87	8.601				
1,900.00	1,900.00	1,899.77	1,899.56	6.58	4.98	-121.30	-35.42	-58.26	68.18	59.94	8.24	8.274				
2,000.00	2,000.00	1,999.92	1,999.70	6.94	5.13	-121.58	-35.83	-58.29	68.42	59.80	8.62	7.937				
2,100.00	2,100.00	2,099.95	2,099.73	7.29	5.31	-121.73	-36.06	-58.32	68.57	59.55	9.01	7.608				
2,200.00	2,200.00	2,200.16	2,199.94	7.65	5.49	-121.94	-36.25	-58.16	68.53	59.12	9.41	7.280				
2,300.00	2,300.00	2,300.45	2,300.23	8.01	5.69	-122.07	-36.17	-57.72	68.12	58.30	9.82	6.936				
2,400.00	2,400.00	2,400.65	2,400.42	8.37	5.90	-122.09	-35.76	-57.03	67.32	57.08	10.23	6.578				
2,437.60	2,437.60	2,438.28	2,438.06	8.50	5.98	-179.34	-35.53	-56.75	67.14	56.75	10.39	6.463				
2,500.00	2,499.99	2,500.74	2,500.51	8.72	6.12	-179.21	-35.05	-56.29	67.62	56.97	10.65	6.350				
2,600.00	2,599.91	2,600.80	2,600.56	9.08	6.35	-178.90	-34.08	-55.56	70.42	59.35	11.07	6.361				
2,700.13	2,699.82	2,700.97	2,700.73	9.43	6.59	-178.55	-32.89	-54.73	75.64	64.14	11.50	6.578				
2,800.00	2,799.38	2,800.79	2,800.52	9.78	6.85	-177.89	-31.09	-53.97	81.91	69.98	11.93	6.865				
2,900.00	2,899.07	2,900.21	2,899.92	10.14	7.11	-176.92	-28.79	-53.58	88.25	75.88	12.37	7.134				
3,000.00	2,998.77	2,999.96	2,999.63	10.50	7.38	-175.91	-26.44	-53.69	95.04	82.22	12.81	7.417				
3,100.00	3,098.46	3,100.18	3,099.82	10.86	7.65	-174.93	-23.79	-53.62	101.55	88.29	13.26	7.658				
3,200.00	3,198.15	3,200.67	3,200.26	11.22	7.94	-173.97	-20.72	-53.12	107.53	93.82	13.71	7.841				
3,300.00	3,297.84	3,300.68	3,300.21	11.58	8.23	-172.94	-17.14	-52.38	113.09	98.92	14.17	7.980				
3,400.00	3,397.53	3,395.22	3,394.71	11.94	8.51	-172.48	-15.37	-52.99	120.67	106.06	14.62	8.256				
3,500.00	3,497.22	3,499.54	3,499.02	12.30	8.82	-172.56	-14.83	-53.95	129.07	113.98	15.09	8.552				
3,600.00	3,596.92	3,600.17	3,599.63	12.67	9.12	-173.19	-14.46	-52.12	135.07	119.51	15.56	8.682				
3,700.00	3,696.61	3,701.07	3,700.47	13.03	9.43	-174.44	-15.16	-48.72	140.17	124.15	16.02	8.747				
3,800.00	3,796.30	3,799.19	3,798.56	13.40	9.73	-175.05	-14.90	-46.43	145.79	129.30	16.49	8.840				
3,900.00	3,895.99	3,898.63	3,897.99	13.77	10.04	-175.16	-13.84	-45.25	152.07	135.11	16.96	8.964				
4,000.00	3,995.68	3,998.26	3,997.61	14.13	10.36	-175.32	-12.99	-44.11	158.49	141.05	17.44	9.089				
4,100.00	4,095.37	4,097.64	4,096.98	14.50	10.68	-175.53	-12.39	-43.03	165.08	147.16	17.91	9.216				
4,200.00	4,195.06	4,196.90	4,196.24	14.87	10.99	-175.71	-11.88	-42.27	171.98	153.59	18.39	9.353				
4,300.00	4,294.76	4,296.46	4,295.79	15.24	11.32	-175.87	-11.48	-41.67	179.09	160.22	18.87	9.492				
4,400.00	4,394.45	4,395.26	4,394.59	15.61	11.64	-175.92	-10.86	-41.36	186.35	167.01	19.34	9.634				
4,500.00	4,494.14	4,493.59	4,492.89	15.98	11.96	-175.34	-8.78	-42.77	194.44	174.62	19.82	9.811				
4,600.00	4,593.83	4,593.09	4,592.23	16.35	12.28	-173.96	-4.21	-45.91	202.94	182.64	20.30	9.998				
4,700.00	4,693.52	4,692.88	4,691.60	16.72	12.61	-171.73	3.60	-50.46	211.45	190.67	20.78	10.175				
4,800.00	4,793.21	4,791.22	4,789.37	17.09	12.94	-169.24	12.91	-55.67	220.34	199.08	21.26	10.363				
4,900.00	4,892.90	4,889.61	4,887.23	17.46	13.27	-167.09	21.51	-61.12	230.08	208.34	21.74	10.582				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH		Offset Site Error:	0.00 usft
Survey Program: 107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,992.60	4,988.21	4,985.34	17.83	13.61	-165.24	29.56	-66.64	240.35	218.13	22.23	10.814				
5,100.00	5,092.29	5,087.86	5,084.52	18.20	13.95	-163.59	37.39	-72.21	250.93	228.21	22.72	11.045				
5,200.00	5,191.98	5,187.68	5,183.94	18.57	14.29	-162.20	44.76	-77.39	261.43	238.22	23.21	11.262				
5,300.00	5,291.67	5,287.02	5,282.95	18.94	14.63	-161.11	51.27	-82.20	271.93	248.23	23.70	11.472				
5,400.00	5,391.36	5,387.14	5,382.77	19.32	14.98	-160.18	57.42	-86.81	282.39	258.19	24.20	11.668				
5,500.00	5,491.05	5,485.97	5,481.34	19.69	15.32	-159.40	63.20	-91.20	292.81	268.11	24.69	11.858				
5,600.00	5,590.74	5,585.25	5,580.36	20.06	15.67	-158.72	68.68	-95.69	303.43	278.24	25.19	12.047				
5,700.00	5,690.44	5,684.38	5,679.24	20.43	16.01	-158.08	74.16	-100.24	314.15	288.46	25.68	12.232				
5,800.00	5,790.13	5,783.92	5,778.49	20.81	16.36	-157.42	80.03	-104.95	324.98	298.80	26.18	12.414				
5,900.00	5,889.82	5,886.04	5,880.20	21.18	16.72	-156.47	87.96	-109.53	335.30	308.61	26.70	12.560				
6,000.00	5,989.51	5,986.49	5,980.11	21.55	17.08	-155.32	97.45	-113.72	345.17	317.97	27.21	12.688				
6,100.00	6,089.20	6,086.72	6,079.82	21.93	17.44	-154.25	106.87	-117.65	354.93	327.21	27.71	12.807				
6,200.00	6,188.89	6,186.54	6,179.17	22.30	17.80	-153.29	115.92	-121.22	364.48	336.26	28.22	12.915				
6,300.00	6,288.58	6,285.57	6,277.68	22.67	18.16	-152.34	125.28	-124.91	374.25	345.52	28.73	13.028				
6,336.71	6,325.18	6,322.20	6,314.12	22.81	18.29	-152.00	128.74	-126.26	377.85	348.94	28.91	13.069				
6,400.00	6,388.31	6,388.69	6,380.32	23.05	18.53	-151.46	134.64	-128.41	383.37	354.12	29.25	13.106				
6,500.00	6,488.19	6,485.57	6,476.91	23.41	18.88	-150.79	141.57	-130.78	389.63	359.89	29.74	13.101				
6,600.00	6,588.16	6,579.72	6,570.78	23.77	19.22	-150.05	147.74	-134.67	395.36	365.15	30.21	13.087				
6,636.84	6,625.00	6,615.17	6,606.11	23.90	19.35	-92.44	150.10	-136.38	397.18	366.79	30.38	13.072				
6,700.00	6,688.16	6,678.30	6,669.01	24.12	19.57	-91.81	154.35	-139.52	400.16	369.46	30.70	13.035				
6,800.00	6,788.16	6,778.49	6,768.86	24.47	19.94	-90.83	161.16	-144.40	404.90	373.70	31.20	12.977				
6,900.00	6,888.16	6,881.47	6,871.52	24.81	20.31	-89.89	167.80	-149.03	409.36	377.64	31.72	12.906				
7,000.00	6,988.16	6,984.29	6,974.17	25.16	20.67	-89.29	172.14	-152.75	413.01	380.78	32.23	12.814				
7,100.00	7,088.16	7,083.65	7,073.47	25.51	21.01	-89.06	173.83	-156.07	416.38	383.66	32.72	12.726				
7,200.00	7,188.16	7,184.80	7,174.56	25.86	21.36	-88.92	174.90	-159.44	419.73	386.52	33.22	12.637				
7,300.00	7,288.16	7,286.34	7,276.04	26.21	21.71	-88.82	175.70	-162.60	422.86	389.14	33.71	12.543				
7,400.00	7,388.16	7,397.46	7,387.14	26.56	22.09	-88.77	176.14	-164.06	424.16	389.92	34.25	12.386				
7,500.00	7,488.16	7,500.33	7,490.01	26.91	22.43	-88.78	176.03	-163.79	423.90	389.16	34.74	12.202				
7,600.00	7,588.16	7,599.98	7,589.66	27.26	22.76	-88.84	175.56	-163.35	423.44	388.22	35.22	12.023				
7,700.00	7,688.16	7,700.02	7,689.70	27.61	23.08	-88.93	174.89	-163.00	423.08	387.38	35.70	11.851				
7,800.00	7,788.16	7,801.71	7,791.38	27.96	23.41	-89.08	173.77	-162.44	422.51	386.33	36.19	11.676				
7,900.00	7,888.16	7,903.01	7,892.67	28.31	23.75	-89.24	172.56	-161.44	421.50	384.83	36.67	11.494				
7,990.00	7,978.16	7,988.30	7,977.96	28.63	24.03	-89.27	172.40	-160.75	420.79	383.69	37.10	11.342				
8,000.00	7,988.16	7,997.43	7,987.09	28.67	24.06	-89.26	172.45	-160.76	420.80	383.65	37.14	11.329				
8,100.00	8,088.16	8,092.56	8,082.21	29.02	24.39	-89.11	173.52	-161.66	421.75	384.13	37.62	11.211				
8,200.00	8,188.16	8,193.25	8,182.88	29.37	24.74	-88.98	174.54	-163.07	423.16	385.05	38.12	11.102				
8,300.00	8,288.16	8,295.75	8,285.37	29.72	25.09	-88.91	175.06	-163.99	424.07	385.46	38.62	10.982				
8,400.00	8,388.16	8,397.15	8,386.77	30.07	25.43	-88.92	175.00	-164.42	424.50	385.38	39.11	10.854				
8,500.00	8,488.16	8,496.91	8,486.53	30.42	25.76	-89.02	174.25	-164.72	424.79	385.19	39.60	10.728				
8,600.00	8,588.16	8,596.44	8,586.05	30.78	26.09	-89.21	172.85	-165.14	425.18	385.10	40.08	10.609				
8,700.00	8,688.16	8,700.56	8,690.17	31.13	26.44	-89.29	172.29	-165.04	425.08	384.50	40.58	10.475				
8,795.61	8,783.77	8,793.97	8,783.57	31.46	26.77	-89.19	173.02	-164.78	424.82	383.78	41.05	10.350				
8,800.00	8,788.16	8,798.22	8,787.82	31.48	26.78	-89.18	173.06	-164.78	424.82	383.75	41.07	10.345				
8,900.00	8,888.16	8,895.05	8,884.65	31.83	27.12	-89.12	173.57	-165.16	425.23	383.68	41.55	10.234				
9,000.00	8,988.16	8,991.96	8,981.55	32.19	27.45	-89.12	173.51	-166.28	426.38	384.35	42.03	10.144				
9,100.00	9,088.16	9,089.98	9,079.55	32.54	27.78	-89.25	172.57	-168.07	428.19	385.68	42.51	10.072				
9,200.00	9,188.16	9,192.55	9,182.10	32.89	28.13	-89.38	171.68	-169.90	429.97	386.95	43.01	9.996				
9,300.00	9,288.16	9,299.18	9,288.72	33.24	28.49	-89.38	171.68	-170.57	430.60	387.07	43.53	9.892				
9,400.00	9,388.16	9,403.89	9,393.43	33.60	28.85	-89.30	172.29	-169.65	429.72	385.69	44.03	9.759				
9,500.00	9,488.16	9,505.62	9,495.15	33.95	29.20	-89.21	172.93	-168.13	428.23	383.70	44.53	9.617				
9,600.00	9,588.16	9,606.79	9,596.29	34.30	29.54	-89.03	174.22	-166.26	426.40	381.38	45.03	9.470				
9,700.00	9,688.16	9,705.04	9,694.50	34.66	29.88	-88.79	175.98	-164.42	424.56	379.05	45.52	9.328				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	9,788.16	9,800.23	9,789.68	35.01	30.21	-88.73	176.40	-163.43	423.53	377.54	46.00	9.208		
9,900.00	9,888.16	9,898.53	9,887.98	35.37	30.53	-88.95	174.73	-163.36	423.43	376.95	46.48	9.110		
9,902.31	9,890.48	9,900.84	9,890.28	35.37	30.54	-88.96	174.67	-163.37	423.43	376.94	46.49	9.108		
9,902.32	9,890.48	9,900.84	9,890.28	35.37	30.54	-88.96	174.67	-163.37	423.43	376.94	46.49	9.108		
10,000.00	9,988.16	9,994.04	9,983.42	35.72	30.85	-89.40	171.44	-163.83	423.88	376.93	46.95	9.028		
10,100.00	10,088.16	10,094.05	10,083.34	36.07	31.18	-89.92	167.58	-165.05	425.08	377.64	47.44	8.961		
10,200.00	10,188.16	10,195.68	10,184.96	36.43	31.53	-90.14	165.99	-165.97	425.98	378.05	47.93	8.887		
10,300.00	10,288.16	10,297.13	10,286.40	36.78	31.87	-90.21	165.46	-166.50	426.51	378.08	48.43	8.806		
10,400.00	10,388.16	10,397.18	10,386.45	37.14	32.22	-90.25	165.11	-166.90	426.90	377.98	48.92	8.726		
10,500.00	10,488.16	10,499.72	10,488.99	37.49	32.57	-90.28	164.95	-166.88	426.89	377.46	49.43	8.637		
10,578.31	10,566.47	10,577.00	10,566.27	37.77	32.83	-90.35	164.41	-166.77	426.78	376.98	49.81	8.569		
10,600.00	10,588.16	10,597.07	10,586.34	37.84	32.89	-90.37	164.21	-166.81	426.82	376.91	49.91	8.552		
10,700.00	10,688.16	10,688.44	10,677.68	38.20	33.20	-90.60	162.55	-168.00	428.15	377.79	50.36	8.501		
10,800.00	10,788.16	10,776.91	10,766.09	38.55	33.51	-90.67	161.97	-171.28	431.87	381.08	50.78	8.504		
10,900.00	10,888.16	10,864.96	10,853.94	38.91	33.82	-90.54	162.90	-177.04	438.38	387.20	51.18	8.565		
11,000.00	10,988.16	10,970.84	10,959.55	39.26	34.19	-90.32	164.51	-184.47	445.39	393.65	51.74	8.609		
11,100.00	11,088.16	11,071.56	11,060.03	39.62	34.55	-89.95	167.37	-190.66	451.52	399.28	52.24	8.643		
11,200.00	11,188.16	11,169.65	11,157.90	39.97	34.90	-89.77	168.81	-197.14	458.13	405.41	52.73	8.689		
11,300.00	11,288.16	11,276.33	11,264.37	40.33	35.27	-89.96	167.31	-203.35	463.95	410.68	53.27	8.709		
11,400.00	11,388.16	11,393.38	11,380.25	40.68	35.65	-91.70	153.10	-207.64	467.91	414.06	53.84	8.690		
11,500.00	11,488.16	11,496.09	11,476.88	41.04	35.94	-95.91	118.75	-205.93	468.55	414.25	54.30	8.630		
11,523.84	11,512.00	11,513.53	11,492.71	41.12	35.99	-96.80	111.44	-205.62	469.31	414.95	54.36	8.633		
11,550.00	11,538.15	11,534.49	11,511.51	41.21	36.04	82.63	102.18	-205.37	470.53	416.09	54.43	8.644		
11,600.00	11,587.94	11,578.96	11,550.59	41.37	36.15	80.23	80.98	-204.79	473.30	418.73	54.57	8.673		
11,650.00	11,637.15	11,633.96	11,597.50	41.52	36.29	77.60	52.32	-203.12	475.76	420.99	54.76	8.687		
11,700.00	11,685.40	11,690.39	11,644.28	41.66	36.42	75.28	20.97	-199.59	476.83	421.87	54.96	8.675		
11,750.00	11,732.34	11,739.24	11,684.45	41.80	36.55	73.76	-6.58	-195.91	476.80	421.70	55.10	8.653		
11,800.00	11,777.59	11,780.53	11,717.81	41.93	36.67	72.83	-30.70	-192.78	476.17	421.00	55.17	8.631		
11,850.00	11,820.83	11,817.30	11,746.19	42.05	36.77	72.12	-53.93	-190.18	475.54	420.38	55.17	8.620		
11,900.00	11,861.72	11,851.00	11,770.71	42.15	36.87	71.54	-76.94	-188.10	475.17	420.07	55.10	8.624		
11,940.56	11,892.94	11,879.71	11,790.61	42.23	36.95	71.14	-97.58	-186.71	475.08	420.04	55.04	8.631		
11,950.00	11,899.94	11,886.20	11,795.02	42.25	36.97	71.06	-102.34	-186.47	475.08	420.06	55.03	8.634		
12,000.00	11,935.21	11,922.47	11,818.99	42.33	37.08	70.78	-129.54	-185.49	475.18	420.20	54.98	8.643		
12,050.00	11,967.27	11,963.94	11,844.93	42.41	37.21	70.69	-161.88	-184.82	475.11	420.09	55.03	8.634		
12,100.00	11,995.85	12,009.44	11,870.98	42.49	37.35	70.74	-199.14	-183.43	474.09	418.94	55.15	8.596		
12,150.00	12,020.76	12,051.33	11,891.75	42.59	37.49	70.83	-235.45	-181.46	472.35	417.12	55.22	8.553		
12,200.00	12,041.79	12,092.37	11,909.16	42.71	37.62	70.99	-272.53	-179.14	470.07	414.77	55.30	8.500		
12,250.00	12,058.79	12,134.00	11,924.00	42.84	37.76	71.26	-311.34	-176.67	467.43	412.02	55.41	8.435		
12,300.00	12,071.63	12,164.69	11,933.06	42.97	37.87	71.61	-340.62	-175.12	464.83	409.36	55.47	8.380		
12,350.00	12,080.21	12,198.56	11,941.07	43.10	37.99	72.05	-373.50	-174.00	462.70	407.09	55.61	8.321		
12,400.00	12,084.46	12,241.00	11,947.91	43.24	38.14	72.63	-415.36	-173.08	460.93	405.09	55.84	8.254		
12,443.82	12,084.61	12,269.47	11,950.97	43.36	38.25	73.17	-443.67	-172.70	459.31	403.25	56.06	8.193		
12,500.00	12,082.65	12,317.04	11,954.67	43.54	38.43	73.82	-491.09	-172.37	457.70	401.28	56.42	8.112		
12,558.21	12,080.62	12,366.67	11,956.67	43.75	38.63	74.28	-540.68	-172.40	457.15	400.37	56.78	8.052		
12,600.00	12,079.16	12,405.08	11,957.03	43.90	38.79	74.51	-579.07	-172.66	457.35	400.33	57.03	8.020		
12,700.00	12,075.68	12,503.71	11,955.56	44.32	39.25	74.81	-677.69	-173.28	458.48	400.81	57.67	7.951		
12,800.00	12,072.19	12,605.96	11,952.66	44.79	39.80	74.91	-779.90	-173.02	459.10	400.74	58.36	7.866		
12,900.00	12,068.70	12,714.24	11,949.48	45.31	40.44	75.00	-888.13	-172.18	459.30	400.14	59.16	7.764		
13,000.00	12,065.22	12,820.87	11,945.11	45.89	41.15	74.83	-994.59	-168.32	456.99	397.00	59.99	7.618		
13,100.00	12,061.73	12,920.56	11,937.54	46.52	41.87	74.20	-1,093.87	-163.33	454.30	393.53	60.77	7.475		
13,200.00	12,058.24	13,019.98	11,930.45	47.20	42.64	73.63	-1,192.92	-158.60	451.78	390.16	61.63	7.331		
13,300.00	12,054.76	13,123.99	11,924.29	47.93	43.50	73.18	-1,296.62	-153.60	448.91	386.33	62.58	7.173		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
13,400.00	12,051.27	13,227.82	11,919.84	48.70	44.41	72.91	-1,400.21	-148.06	445.07	381.43	63.64	6.994				
13,500.00	12,047.78	13,328.89	11,916.40	49.51	45.33	72.75	-1,501.06	-142.45	440.78	376.03	64.75	6.807				
13,600.00	12,044.29	13,434.51	11,913.31	50.37	46.34	72.62	-1,606.45	-136.06	435.88	369.93	65.95	6.609				
13,700.00	12,040.81	13,533.30	11,910.84	51.26	47.33	72.50	-1,704.93	-128.81	429.62	362.45	67.18	6.396				
13,800.00	12,037.32	13,623.63	11,909.21	52.19	48.25	72.54	-1,795.13	-124.18	425.26	356.81	68.45	6.212				
13,900.00	12,033.83	13,723.80	11,907.12	53.15	49.31	72.62	-1,895.22	-120.59	422.46	352.64	69.83	6.050				
14,000.00	12,030.35	13,816.84	11,906.34	54.15	50.33	72.85	-1,988.19	-117.21	419.30	348.05	71.25	5.885				
14,100.00	12,026.86	13,909.94	11,906.49	55.18	51.36	73.32	-2,081.29	-116.83	418.85	346.08	72.77	5.756				
14,120.24	12,026.15	13,930.03	11,906.67	55.40	51.58	73.44	-2,101.37	-116.88	418.85	345.74	73.10	5.729				
14,200.00	12,023.37	14,016.61	11,908.20	56.24	52.58	74.07	-2,187.94	-116.69	418.35	343.83	74.52	5.614				
14,265.58	12,021.09	14,075.57	11,909.29	56.95	53.26	74.49	-2,246.88	-116.14	417.53	341.94	75.59	5.524				
14,300.00	12,019.89	14,103.78	11,908.88	57.33	53.60	74.58	-2,275.08	-116.21	417.79	341.71	76.08	5.491				
14,400.00	12,016.40	14,198.69	11,904.68	58.44	54.73	74.55	-2,369.89	-117.54	420.41	342.83	77.58	5.419				
14,500.00	12,012.91	14,301.68	11,900.28	59.58	55.98	74.52	-2,472.78	-118.76	422.81	343.61	79.20	5.338				
14,600.00	12,009.43	14,410.32	11,898.69	60.74	57.32	74.87	-2,581.38	-119.37	423.87	342.86	81.02	5.232				
14,700.00	12,005.94	14,516.88	11,904.64	61.92	58.66	76.19	-2,687.76	-119.55	422.80	339.67	83.12	5.086				
14,752.53	12,004.11	14,563.41	11,907.73	62.56	59.26	76.83	-2,734.18	-119.83	422.41	338.26	84.15	5.020				
14,800.00	12,002.45	14,605.91	11,909.53	63.13	59.80	77.30	-2,776.64	-120.40	422.72	337.68	85.04	4.971				
14,900.00	11,998.96	14,698.96	11,911.85	64.35	61.00	78.12	-2,869.63	-122.62	424.83	337.93	86.90	4.888				
15,000.00	11,995.48	14,798.03	11,915.12	65.60	62.29	79.12	-2,968.59	-125.88	427.79	338.88	88.91	4.812				
15,100.00	11,991.99	14,897.75	11,917.92	66.86	63.61	80.06	-3,068.20	-129.63	431.43	340.51	90.92	4.745				
15,200.00	11,988.50	15,014.12	11,922.57	68.13	65.17	81.26	-3,184.45	-131.10	432.49	339.28	93.21	4.640				
15,300.00	11,985.02	15,115.15	11,928.60	69.43	66.55	82.52	-3,285.30	-130.46	431.60	336.26	95.34	4.527				
15,400.00	11,981.53	15,222.65	11,931.15	70.73	68.02	83.35	-3,392.76	-129.20	430.83	333.39	97.43	4.422				
15,500.00	11,978.04	15,331.66	11,936.06	72.06	69.54	84.47	-3,501.58	-125.11	427.30	327.73	99.58	4.291				
15,600.00	11,974.56	15,430.29	11,941.07	73.39	70.92	85.56	-3,599.98	-120.62	423.09	321.43	101.66	4.162				
15,700.00	11,971.07	15,530.55	11,945.53	74.74	72.34	86.61	-3,700.04	-116.17	419.19	315.45	103.74	4.041				
15,800.00	11,967.58	15,619.45	11,948.40	76.10	73.61	87.41	-3,788.84	-113.23	416.61	310.91	105.70	3.942				
15,900.00	11,964.09	15,720.88	11,950.43	77.47	75.06	88.17	-3,890.22	-111.02	415.31	307.56	107.75	3.854				
16,000.00	11,960.61	15,821.31	11,952.42	78.85	76.50	88.93	-3,990.60	-108.56	413.80	304.02	109.79	3.769				
16,100.00	11,957.12	15,924.55	11,954.54	80.24	77.99	89.72	-4,093.76	-105.15	411.51	299.66	111.85	3.679				
16,200.00	11,953.63	16,018.88	11,955.91	81.65	79.37	90.37	-4,188.06	-102.77	410.06	296.24	113.82	3.603				
16,300.00	11,950.15	16,125.84	11,958.27	83.06	80.93	91.22	-4,294.95	-99.96	408.61	292.70	115.91	3.525				
16,400.00	11,946.66	16,226.90	11,962.04	84.48	82.42	92.26	-4,395.81	-94.96	404.95	287.03	117.92	3.434				
16,491.51	11,943.47	16,307.08	11,962.79	85.78	83.60	92.77	-4,475.96	-92.93	403.79	284.16	119.63	3.375				
16,500.00	11,943.17	16,314.82	11,962.85	85.90	83.72	92.82	-4,483.69	-92.84	403.80	284.01	119.79	3.371				
16,600.00	11,939.69	16,406.84	11,964.53	87.34	85.08	93.50	-4,575.70	-92.73	405.05	283.43	121.62	3.330				
16,700.00	11,936.20	16,506.51	11,966.77	88.78	86.55	94.29	-4,675.33	-93.98	407.78	284.20	123.57	3.300				
16,800.00	11,932.71	16,611.40	11,970.38	90.23	88.12	95.29	-4,780.16	-93.74	409.20	283.61	125.58	3.258				
16,900.00	11,929.23	16,707.38	11,974.47	91.69	89.56	96.31	-4,876.05	-93.36	410.68	283.32	127.36	3.225				
17,000.00	11,925.74	16,798.52	11,976.67	93.15	90.92	97.02	-4,967.14	-94.67	413.88	284.86	129.02	3.208				
17,100.00	11,922.25	16,893.28	11,973.77	94.62	92.34	96.99	-5,061.77	-98.64	419.16	288.22	130.94	3.201				
17,200.00	11,918.76	16,995.85	11,971.23	96.10	93.87	97.04	-5,164.22	-103.03	424.61	291.51	133.10	3.190				
17,300.00	11,915.28	17,099.00	11,970.08	97.58	95.42	97.29	-5,267.30	-106.31	429.13	293.92	135.22	3.174				
17,400.00	11,911.79	17,203.36	11,970.86	99.06	97.00	97.81	-5,371.63	-108.53	432.88	295.59	137.29	3.153				
17,500.00	11,908.30	17,306.17	11,973.69	100.56	98.56	98.61	-5,474.40	-109.47	435.75	296.55	139.20	3.130				
17,600.00	11,904.82	17,408.74	11,976.23	102.05	100.13	99.37	-5,576.93	-109.80	438.08	296.99	141.09	3.105				
17,700.00	11,901.33	17,513.87	11,978.73	103.55	101.74	100.16	-5,682.03	-109.23	439.61	296.63	142.98	3.075				
17,800.00	11,897.84	17,614.46	11,981.67	105.06	103.29	101.00	-5,782.56	-107.23	439.90	295.18	144.72	3.040				
17,900.00	11,894.36	17,703.05	11,984.98	106.57	104.66	101.79	-5,871.08	-107.13	442.26	296.11	146.15	3.026				
18,000.00	11,890.87	17,801.58	11,988.69	108.08	106.17	102.64	-5,969.53	-108.29	446.01	298.26	147.75	3.019				
18,100.00	11,887.38	17,899.17	11,992.52	109.60	107.68	103.48	-6,067.05	-109.28	449.75	300.47	149.28	3.013				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		County Fair/Blue Ribbon - County Fair Fed Com 602H - OH - OH											Offset Site Error:		0.00 usft	
Survey Program:		107-OWSG (Rev2) MWD, 1422-OWSG (Rev2) MWD, 22063-BLIND											Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
18,200.00	11,883.90	17,990.41	11,996.08	111.12	109.09	104.20	-6,158.18	-111.82	455.26	304.67	150.59	3.023				
18,300.00	11,880.41	18,088.47	12,000.15	112.65	110.60	104.95	-6,256.08	-115.56	461.93	309.83	152.10	3.037				
18,400.00	11,876.92	18,188.24	12,004.71	114.18	112.14	105.76	-6,355.69	-119.10	468.55	314.93	153.61	3.050				
18,500.00	11,873.43	18,287.56	12,007.92	115.71	113.68	106.36	-6,454.87	-123.33	475.53	320.31	155.23	3.063				
18,600.00	11,869.95	18,395.46	12,012.01	117.24	115.35	107.10	-6,562.63	-126.90	481.87	324.82	157.05	3.068				
18,700.00	11,866.46	18,501.21	12,016.46	118.78	117.00	107.93	-6,668.27	-128.13	486.33	327.70	158.62	3.066				
18,800.00	11,862.97	18,599.94	12,020.99	120.32	118.55	108.76	-6,766.90	-128.72	490.47	330.56	159.92	3.067				
18,900.00	11,859.49	18,702.64	12,027.46	121.87	120.16	109.82	-6,869.38	-128.65	494.68	333.62	161.07	3.071				
19,000.00	11,856.00	18,808.61	12,035.49	123.42	121.83	111.11	-6,975.04	-126.99	498.11	336.12	161.99	3.075				
19,100.00	11,852.51	18,921.94	12,042.75	124.96	123.62	112.43	-7,088.06	-122.88	499.39	336.49	162.90	3.066				
19,200.00	11,849.03	19,025.82	12,048.54	126.52	125.26	113.60	-7,191.64	-117.67	499.31	335.69	163.62	3.052				
19,300.00	11,845.54	19,132.02	12,051.09	128.07	126.95	114.44	-7,297.69	-112.66	498.39	333.73	164.66	3.027				
19,400.00	11,842.05	19,229.65	12,050.76	129.63	128.49	114.92	-7,395.21	-108.23	496.58	330.61	165.97	2.992				
19,458.23	11,840.02	19,282.30	12,049.90	130.54	129.32	115.06	-7,447.84	-106.89	496.25	329.42	166.83	2.975				
19,500.00	11,838.57	19,320.24	12,049.30	131.19	129.92	115.15	-7,485.77	-106.29	496.42	328.95	167.46	2.964				
19,600.00	11,835.08	19,421.76	12,048.22	132.75	131.53	115.40	-7,587.28	-105.28	497.53	328.42	169.11	2.942				
19,700.00	11,831.59	19,522.18	12,047.01	134.31	133.12	115.68	-7,687.67	-103.23	497.66	326.99	170.67	2.916				
19,800.00	11,828.10	19,616.61	12,047.10	135.88	134.62	116.07	-7,782.08	-101.52	498.57	326.61	171.96	2.899				
19,900.00	11,824.62	19,710.76	12,049.47	137.45	136.11	116.68	-7,876.19	-99.94	500.70	327.81	172.89	2.896 SF				
20,000.00	11,821.13	19,801.20	12,053.08	139.02	137.55	117.36	-7,966.55	-99.12	504.28	330.74	173.54	2.906				
20,100.00	11,817.64	19,902.11	12,059.18	140.59	139.16	118.29	-8,067.27	-98.59	509.24	335.10	174.14	2.924				
20,200.00	11,814.16	20,011.12	12,063.71	142.16	140.89	119.11	-8,176.18	-97.44	512.94	337.83	175.11	2.929				
20,300.00	11,810.67	20,107.43	12,067.48	143.74	142.43	119.83	-8,272.40	-95.78	516.04	340.28	175.75	2.936				
20,400.00	11,807.18	20,203.00	12,071.83	145.31	143.96	120.64	-8,367.84	-93.46	518.98	342.81	176.17	2.946				
20,500.00	11,803.70	20,296.00	12,077.43	146.89	145.44	121.47	-8,460.65	-92.48	523.94	347.53	176.41	2.970				
20,600.00	11,800.21	20,384.93	12,085.61	148.47	146.86	122.44	-8,549.21	-92.66	531.66	355.50	176.16	3.018				
20,700.00	11,796.72	20,480.96	12,094.84	150.05	148.39	123.49	-8,644.79	-92.95	539.98	363.94	176.04	3.067				
20,800.00	11,793.23	20,589.57	12,104.73	151.63	150.13	124.61	-8,752.94	-93.14	548.12	371.74	176.38	3.108				
20,900.00	11,789.75	20,713.62	12,110.15	153.22	152.12	125.41	-8,876.84	-92.28	552.91	375.28	177.63	3.113				
21,000.00	11,786.26	20,816.54	12,110.03	154.80	153.76	125.70	-8,979.76	-91.26	554.92	375.99	178.93	3.101				
21,100.00	11,782.77	20,913.35	12,110.25	156.39	155.31	125.96	-9,076.57	-90.91	557.68	377.56	180.12	3.096				
21,200.00	11,779.29	21,007.32	12,112.40	157.98	156.82	126.42	-9,170.49	-89.64	560.90	380.08	180.82	3.102				
21,300.00	11,775.80	21,103.03	12,119.54	159.57	158.36	127.42	-9,265.86	-86.24	565.50	384.99	180.51	3.133				
21,400.00	11,772.31	21,208.20	12,124.32	161.16	160.05	128.12	-9,370.91	-84.55	570.02	388.97	181.05	3.148				
21,500.00	11,768.83	21,296.64	12,127.42	162.75	161.47	128.60	-9,459.28	-83.82	574.61	393.18	181.43	3.167				
21,600.00	11,765.34	21,399.81	12,133.88	164.35	163.13	129.37	-9,562.24	-82.75	580.81	399.06	181.76	3.196				
21,700.00	11,761.85	21,496.04	12,139.62	165.94	164.68	130.10	-9,658.28	-81.08	586.37	404.51	181.86	3.224				
21,800.00	11,758.37	21,601.67	12,147.30	167.54	166.38	131.04	-9,763.59	-78.21	592.15	410.33	181.82	3.257				
21,900.00	11,754.88	21,700.88	12,152.54	169.13	167.98	131.72	-9,862.64	-76.43	597.42	415.35	182.07	3.281				
22,000.00	11,751.39	21,803.82	12,156.19	170.73	169.64	132.20	-9,965.51	-75.83	602.50	419.66	182.83	3.295				
22,100.00	11,747.90	21,904.19	12,158.55	172.33	171.26	132.54	-10,065.86	-75.78	607.20	423.42	183.78	3.304				
22,200.00	11,744.42	21,998.92	12,164.13	173.93	172.79	133.25	-10,160.37	-73.20	612.39	428.68	183.71	3.333				
22,244.96	11,742.85	22,043.00	12,168.10	174.65	177.27	133.74	-10,204.21	-71.00	614.99	429.97	185.02	3.324				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.52	-0.32	-34.99	34.99					
100.00	100.00	100.00	100.00	0.13	0.13	-90.52	-0.32	-34.99	34.99	34.81	0.18	197.208		
200.00	200.00	200.00	200.00	0.48	0.48	-90.52	-0.32	-34.99	34.99	34.31	0.68	51.128		
300.00	300.00	300.00	300.00	0.84	0.84	-90.52	-0.32	-34.99	34.99	33.80	1.19	29.371		
400.00	400.00	400.00	400.00	1.20	1.20	-90.52	-0.32	-34.99	34.99	33.29	1.70	20.604		
500.00	500.00	500.00	500.00	1.56	1.56	-90.52	-0.32	-34.99	34.99	32.79	2.21	15.867		
600.00	600.00	600.00	600.00	1.92	1.92	-90.52	-0.32	-34.99	34.99	32.28	2.71	12.901		
700.00	700.00	700.00	700.00	2.28	2.28	-90.52	-0.32	-34.99	34.99	31.77	3.22	10.870		
800.00	800.00	800.00	800.00	2.63	2.63	-90.52	-0.32	-34.99	34.99	31.27	3.73	9.391		
900.00	900.00	900.00	900.00	2.99	2.99	-90.52	-0.32	-34.99	34.99	30.76	4.23	8.266		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.52	-0.32	-34.99	34.99	30.25	4.74	7.382		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-90.52	-0.32	-34.99	34.99	29.74	5.25	6.669		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-90.52	-0.32	-34.99	34.99	29.24	5.75	6.081		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.52	-0.32	-34.99	34.99	28.73	6.26	5.589		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.52	-0.32	-34.99	34.99	28.22	6.77	5.170		
1,500.00	1,500.00	1,500.00	1,500.00	5.14	5.14	-90.52	-0.32	-34.99	34.99	27.72	7.27	4.810		
1,600.00	1,600.00	1,600.00	1,600.00	5.50	5.50	-90.52	-0.32	-34.99	34.99	27.21	7.78	4.497		
1,700.00	1,700.00	1,700.00	1,700.00	5.86	5.86	-90.52	-0.32	-34.99	34.99	26.70	8.29	4.222		
1,800.00	1,800.00	1,800.00	1,800.00	6.22	6.22	-90.52	-0.32	-34.99	34.99	26.20	8.80	3.978		
1,900.00	1,900.00	1,900.00	1,900.00	6.58	6.58	-90.52	-0.32	-34.99	34.99	25.69	9.30	3.761		
2,000.00	2,000.00	2,000.00	2,000.00	6.94	6.94	-90.52	-0.32	-34.99	34.99	25.18	9.81	3.567 CC, ES		
2,100.00	2,100.00	2,099.20	2,099.19	7.29	7.29	-89.47	0.33	-36.10	36.11	25.80	10.31	3.503		
2,200.00	2,200.00	2,198.26	2,198.18	7.65	7.64	-86.67	2.29	-39.42	39.53	28.73	10.80	3.661		
2,300.00	2,300.00	2,297.39	2,297.10	8.01	7.99	-83.02	5.49	-44.85	45.28	34.00	11.29	4.012		
2,400.00	2,400.00	2,397.15	2,396.61	8.37	8.34	-79.93	9.03	-50.86	51.76	39.98	11.79	4.392		
2,500.00	2,499.99	2,496.85	2,496.07	8.72	8.70	-135.65	12.56	-56.85	59.29	47.00	12.28	4.826		
2,600.00	2,599.91	2,596.40	2,595.38	9.08	9.05	-135.95	16.09	-62.84	68.69	55.91	12.78	5.375		
2,700.13	2,699.82	2,695.86	2,694.60	9.43	9.41	-137.45	19.62	-68.83	80.02	66.74	13.28	6.027		
2,800.00	2,799.38	2,794.94	2,793.43	9.78	9.77	-139.20	23.13	-74.79	92.35	78.57	13.77	6.704		
2,900.00	2,899.07	2,894.14	2,892.39	10.14	10.12	-140.54	26.65	-80.75	104.75	90.48	14.27	7.340		
3,000.00	2,998.77	2,993.34	2,991.35	10.50	10.48	-141.59	30.17	-86.72	117.20	102.43	14.77	7.935		
3,100.00	3,098.46	3,092.54	3,090.31	10.86	10.84	-142.44	33.68	-92.69	129.69	114.42	15.27	8.493		
3,200.00	3,198.15	3,191.74	3,189.27	11.22	11.21	-143.14	37.20	-98.66	142.19	126.42	15.77	9.017		
3,300.00	3,297.84	3,290.94	3,288.23	11.58	11.57	-143.73	40.72	-104.63	154.71	138.44	16.27	9.509		
3,400.00	3,397.53	3,390.15	3,387.19	11.94	11.93	-144.23	44.23	-110.59	167.25	150.48	16.77	9.972		
3,500.00	3,497.22	3,489.35	3,486.15	12.30	12.29	-144.66	47.75	-116.56	179.80	162.53	17.27	10.409		
3,600.00	3,596.92	3,588.55	3,585.10	12.67	12.65	-145.04	51.27	-122.53	192.36	174.58	17.78	10.821		
3,700.00	3,696.61	3,687.75	3,684.06	13.03	13.02	-145.37	54.78	-128.50	204.92	186.64	18.28	11.210		
3,800.00	3,796.30	3,786.95	3,783.02	13.40	13.38	-145.66	58.30	-134.47	217.49	198.71	18.78	11.579		
3,900.00	3,895.99	3,886.15	3,881.98	13.77	13.75	-145.92	61.82	-140.43	230.06	210.78	19.29	11.928		
4,000.00	3,995.68	3,985.35	3,980.94	14.13	14.11	-146.15	65.33	-146.40	242.64	222.85	19.79	12.259		
4,100.00	4,095.37	4,084.55	4,079.90	14.50	14.48	-146.36	68.85	-152.37	255.22	234.93	20.30	12.574		
4,200.00	4,195.06	4,183.76	4,178.86	14.87	14.84	-146.55	72.37	-158.34	267.81	247.01	20.80	12.873		
4,300.00	4,294.76	4,282.96	4,277.82	15.24	15.21	-146.72	75.88	-164.30	280.40	259.09	21.31	13.158		
4,400.00	4,394.45	4,382.16	4,376.78	15.61	15.57	-146.88	79.40	-170.27	292.99	271.17	21.82	13.430		
4,500.00	4,494.14	4,481.36	4,475.74	15.98	15.94	-147.02	82.92	-176.24	305.58	283.26	22.32	13.689		
4,600.00	4,593.83	4,580.56	4,574.70	16.35	16.31	-147.15	86.43	-182.21	318.17	295.34	22.83	13.937		
4,700.00	4,693.52	4,679.76	4,673.65	16.72	16.67	-147.28	89.95	-188.18	330.77	307.43	23.34	14.174		
4,800.00	4,793.21	4,778.96	4,772.61	17.09	17.04	-147.39	93.47	-194.14	343.36	319.52	23.84	14.401		
4,900.00	4,892.90	4,878.16	4,871.57	17.46	17.41	-147.50	96.98	-200.11	355.96	331.61	24.35	14.618		
5,000.00	4,992.60	4,977.36	4,970.53	17.83	17.78	-147.60	100.50	-206.08	368.56	343.70	24.86	14.826		
5,100.00	5,092.29	5,076.57	5,069.49	18.20	18.14	-147.69	104.02	-212.05	381.16	355.79	25.37	15.026		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,191.98	5,175.77	5,168.45	18.57	18.51	-147.77	107.53	-218.02	393.76	367.89	25.88	15.218		
5,300.00	5,291.67	5,274.97	5,267.41	18.94	18.88	-147.86	111.05	-223.98	406.36	379.98	26.38	15.402		
5,400.00	5,391.36	5,374.17	5,366.37	19.32	19.25	-147.93	114.57	-229.95	418.97	392.07	26.89	15.579		
5,500.00	5,491.05	5,473.37	5,465.33	19.69	19.61	-148.00	118.08	-235.92	431.57	404.17	27.40	15.750		
5,600.00	5,590.74	5,572.57	5,564.29	20.06	19.98	-148.07	121.60	-241.89	444.17	416.26	27.91	15.914		
5,700.00	5,690.44	5,671.77	5,663.25	20.43	20.35	-148.13	125.12	-247.85	456.78	428.36	28.42	16.073		
5,800.00	5,790.13	5,770.97	5,762.20	20.81	20.72	-148.20	128.64	-253.82	469.38	440.45	28.93	16.225		
5,900.00	5,889.82	5,870.18	5,861.16	21.18	21.09	-148.25	132.15	-259.79	481.99	452.55	29.44	16.373		
6,000.00	5,989.51	5,969.38	5,960.12	21.55	21.46	-148.31	135.67	-265.76	494.60	464.65	29.95	16.515		
6,100.00	6,089.20	6,068.58	6,059.08	21.93	21.83	-148.36	139.19	-271.73	507.20	476.74	30.46	16.653		
6,200.00	6,188.89	6,167.78	6,158.04	22.30	22.19	-148.41	142.70	-277.69	519.81	488.84	30.97	16.786		
6,300.00	6,288.58	6,266.98	6,257.00	22.67	22.56	-148.45	146.22	-283.66	532.42	500.94	31.48	16.914		
6,336.71	6,325.18	6,303.40	6,293.33	22.81	22.70	-148.47	147.51	-285.85	537.04	505.38	31.66	16.960		
6,400.00	6,388.31	6,366.24	6,356.01	23.05	22.93	-148.53	149.74	-289.63	544.58	512.59	31.99	17.025		
6,500.00	6,488.19	6,465.72	6,455.25	23.41	23.30	-148.49	153.26	-295.62	554.67	522.18	32.50	17.069		
6,600.00	6,588.16	6,565.37	6,554.66	23.77	23.67	-148.30	156.80	-301.61	562.55	529.55	33.00	17.046		
6,636.84	6,625.00	6,602.11	6,591.31	23.90	23.81	-90.90	158.10	-303.82	564.90	531.71	33.19	17.021		
6,700.00	6,688.16	6,666.72	6,655.76	24.12	24.05	-90.67	160.38	-307.69	568.65	535.14	33.52	16.967		
6,800.00	6,788.16	6,781.26	6,770.15	24.47	24.47	-90.36	163.38	-312.78	573.08	538.99	34.09	16.812		
6,900.00	6,888.16	6,896.06	6,884.92	24.81	24.88	-90.24	164.64	-314.92	574.93	540.29	34.64	16.598		
7,000.00	6,988.16	6,999.31	6,988.16	25.16	25.24	-90.23	164.68	-314.99	574.99	539.85	35.14	16.361		
7,100.00	7,088.16	7,099.31	7,088.16	25.51	25.58	-90.23	164.68	-314.99	574.99	539.35	35.64	16.133		
7,200.00	7,188.16	7,199.31	7,188.16	25.86	25.93	-90.23	164.68	-314.99	574.99	538.86	36.14	15.911		
7,300.00	7,288.16	7,299.31	7,288.16	26.21	26.28	-90.23	164.68	-314.99	574.99	538.36	36.64	15.694		
7,400.00	7,388.16	7,399.31	7,388.16	26.56	26.63	-90.23	164.68	-314.99	574.99	537.86	37.13	15.484		
7,500.00	7,488.16	7,499.31	7,488.16	26.91	26.98	-90.23	164.68	-314.99	574.99	537.36	37.63	15.279		
7,600.00	7,588.16	7,599.31	7,588.16	27.26	27.33	-90.23	164.68	-314.99	574.99	536.86	38.13	15.079		
7,700.00	7,688.16	7,699.31	7,688.16	27.61	27.67	-90.23	164.68	-314.99	574.99	536.36	38.63	14.885		
7,800.00	7,788.16	7,799.31	7,788.16	27.96	28.02	-90.23	164.68	-314.99	574.99	535.87	39.13	14.695		
7,900.00	7,888.16	7,899.31	7,888.16	28.31	28.37	-90.23	164.68	-314.99	574.99	535.37	39.63	14.510		
8,000.00	7,988.16	7,999.31	7,988.16	28.67	28.72	-90.23	164.68	-314.99	574.99	534.87	40.13	14.329		
8,100.00	8,088.16	8,099.31	8,088.16	29.02	29.07	-90.23	164.68	-314.99	574.99	534.37	40.63	14.153		
8,200.00	8,188.16	8,199.31	8,188.16	29.37	29.42	-90.23	164.68	-314.99	574.99	533.87	41.13	13.981		
8,300.00	8,288.16	8,299.31	8,288.16	29.72	29.77	-90.23	164.68	-314.99	574.99	533.37	41.63	13.813		
8,400.00	8,388.16	8,399.31	8,388.16	30.07	30.12	-90.23	164.68	-314.99	574.99	532.87	42.13	13.650		
8,500.00	8,488.16	8,499.31	8,488.16	30.42	30.47	-90.23	164.68	-314.99	574.99	532.37	42.63	13.489		
8,600.00	8,588.16	8,599.31	8,588.16	30.78	30.83	-90.23	164.68	-314.99	574.99	531.87	43.13	13.333		
8,700.00	8,688.16	8,699.31	8,688.16	31.13	31.18	-90.23	164.68	-314.99	574.99	531.37	43.63	13.180		
8,800.00	8,788.16	8,799.31	8,788.16	31.48	31.53	-90.23	164.68	-314.99	574.99	530.87	44.13	13.030		
8,900.00	8,888.16	8,899.31	8,888.16	31.83	31.88	-90.23	164.68	-314.99	574.99	530.37	44.63	12.884		
9,000.00	8,988.16	8,999.31	8,988.16	32.19	32.23	-90.23	164.68	-314.99	574.99	529.87	45.13	12.741		
9,100.00	9,088.16	9,099.31	9,088.16	32.54	32.58	-90.23	164.68	-314.99	574.99	529.36	45.63	12.601		
9,200.00	9,188.16	9,199.31	9,188.16	32.89	32.93	-90.23	164.68	-314.99	574.99	528.86	46.13	12.464		
9,300.00	9,288.16	9,299.31	9,288.16	33.24	33.29	-90.23	164.68	-314.99	574.99	528.36	46.63	12.330		
9,400.00	9,388.16	9,399.31	9,388.16	33.60	33.64	-90.23	164.68	-314.99	574.99	527.86	47.13	12.199		
9,500.00	9,488.16	9,499.31	9,488.16	33.95	33.99	-90.23	164.68	-314.99	574.99	527.36	47.64	12.071		
9,600.00	9,588.16	9,599.31	9,588.16	34.30	34.34	-90.23	164.68	-314.99	574.99	526.86	48.14	11.945		
9,700.00	9,688.16	9,699.31	9,688.16	34.66	34.69	-90.23	164.68	-314.99	574.99	526.36	48.64	11.822		
9,800.00	9,788.16	9,799.31	9,788.16	35.01	35.05	-90.23	164.68	-314.99	574.99	525.85	49.14	11.701		
9,900.00	9,888.16	9,899.31	9,888.16	35.37	35.40	-90.23	164.68	-314.99	574.99	525.35	49.64	11.583		
10,000.00	9,988.16	9,999.31	9,988.16	35.72	35.75	-90.23	164.68	-314.99	574.99	524.85	50.14	11.467		
10,100.00	10,088.16	10,099.31	10,088.16	36.07	36.11	-90.23	164.68	-314.99	574.99	524.35	50.65	11.353		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,188.16	10,199.31	10,188.16	36.43	36.46	-90.23	164.68	-314.99	574.99	523.85	51.15	11.242		
10,300.00	10,288.16	10,299.31	10,288.16	36.78	36.81	-90.23	164.68	-314.99	574.99	523.34	51.65	11.132		
10,400.00	10,388.16	10,399.31	10,388.16	37.14	37.17	-90.23	164.68	-314.99	574.99	522.84	52.15	11.025		
10,500.00	10,488.16	10,499.31	10,488.16	37.49	37.52	-90.23	164.68	-314.99	574.99	522.34	52.66	10.920		
10,600.00	10,588.16	10,599.31	10,588.16	37.84	37.87	-90.23	164.68	-314.99	574.99	521.84	53.16	10.817		
10,700.00	10,688.16	10,699.31	10,688.16	38.20	38.23	-90.23	164.68	-314.99	574.99	521.33	53.66	10.715		
10,800.00	10,788.16	10,799.31	10,788.16	38.55	38.58	-90.23	164.68	-314.99	574.99	520.83	54.16	10.616		
10,900.00	10,888.16	10,899.31	10,888.16	38.91	38.93	-90.23	164.68	-314.99	574.99	520.33	54.67	10.518		
11,000.00	10,988.16	10,999.31	10,988.16	39.26	39.29	-90.23	164.68	-314.99	574.99	519.83	55.17	10.422		
11,100.00	11,088.16	11,099.31	11,088.16	39.62	39.64	-90.23	164.68	-314.99	574.99	519.32	55.67	10.328		
11,200.00	11,188.16	11,199.31	11,188.16	39.97	39.99	-90.23	164.68	-314.99	574.99	518.82	56.18	10.236		
11,300.00	11,288.16	11,299.31	11,288.16	40.33	40.35	-90.23	164.68	-314.99	574.99	518.32	56.68	10.145		
11,400.00	11,388.16	11,399.31	11,388.16	40.68	40.68	-90.56	161.38	-314.94	574.97	517.80	57.17	10.057		
11,420.97	11,409.14	11,420.56	11,409.14	40.76	40.75	-90.82	158.76	-314.91	574.96	517.70	57.27	10.040		
11,500.00	11,488.16	11,496.80	11,483.64	41.04	40.98	-92.41	142.85	-314.68	575.20	517.58	57.63	9.982		
11,523.84	11,512.00	11,518.84	11,504.71	41.12	41.04	-93.05	136.43	-314.59	575.44	517.72	57.73	9.968		
11,550.00	11,538.15	11,542.58	11,527.13	41.21	41.11	86.81	128.60	-314.47	575.83	517.99	57.83	9.956		
11,600.00	11,587.94	11,587.21	11,568.29	41.37	41.22	85.37	111.40	-314.23	576.84	518.82	58.02	9.943		
11,650.00	11,637.15	11,630.91	11,607.19	41.52	41.33	83.98	91.50	-313.94	578.17	520.00	58.17	9.939		
11,700.00	11,685.40	11,673.78	11,643.77	41.66	41.43	82.63	69.16	-313.62	579.78	521.48	58.30	9.945		
11,750.00	11,732.34	11,715.92	11,677.99	41.80	41.51	81.34	44.60	-313.27	581.62	523.22	58.40	9.959		
11,800.00	11,777.59	11,757.39	11,709.82	41.93	41.59	80.12	18.03	-312.89	583.62	525.15	58.47	9.982		
11,850.00	11,820.83	11,800.00	11,740.44	42.05	41.67	78.93	-11.59	-312.46	585.74	527.22	58.52	10.009		
11,900.00	11,861.72	11,838.61	11,766.21	42.15	41.72	77.89	-40.33	-312.05	587.90	529.38	58.52	10.046		
11,950.00	11,899.94	11,878.50	11,790.74	42.25	41.78	76.89	-71.76	-311.60	590.07	531.56	58.51	10.085		
12,000.00	11,935.21	11,917.97	11,812.80	42.33	41.84	75.98	-104.48	-311.13	592.18	533.70	58.48	10.125		
12,050.00	11,967.27	11,957.08	11,832.39	42.41	41.91	75.16	-138.32	-310.65	594.19	535.74	58.45	10.165		
12,100.00	11,995.85	12,000.00	11,851.18	42.49	42.01	74.37	-176.90	-310.10	596.07	537.62	58.45	10.197		
12,150.00	12,020.76	12,034.43	11,864.12	42.59	42.09	73.79	-208.79	-309.64	597.72	539.32	58.40	10.235		
12,200.00	12,041.79	12,072.74	11,876.25	42.71	42.19	73.26	-245.12	-309.12	599.16	540.77	58.39	10.262		
12,250.00	12,058.79	12,110.88	11,885.88	42.84	42.29	72.82	-282.01	-308.59	600.34	541.93	58.40	10.279		
12,300.00	12,071.63	12,150.00	11,893.19	42.97	42.39	72.48	-320.43	-308.04	601.23	542.78	58.45	10.286		
12,350.00	12,080.21	12,186.77	11,897.66	43.10	42.49	72.26	-356.92	-307.52	601.82	543.30	58.53	10.283		
12,400.00	12,084.46	12,224.59	11,899.80	43.24	42.60	72.13	-394.67	-306.98	602.09	543.45	58.64	10.267		
12,443.82	12,084.61	12,258.12	11,899.61	43.36	42.70	72.10	-428.19	-306.50	602.07	543.28	58.78	10.243		
12,500.00	12,082.65	12,313.77	11,897.67	43.54	42.88	72.10	-483.80	-305.70	601.88	542.87	59.01	10.199		
12,600.00	12,079.16	12,413.77	11,894.18	43.90	43.24	72.09	-583.73	-304.27	601.55	542.06	59.49	10.112		
12,700.00	12,075.68	12,513.77	11,890.70	44.32	43.67	72.08	-683.65	-302.84	601.22	541.18	60.04	10.013		
12,800.00	12,072.19	12,613.77	11,887.21	44.79	44.15	72.07	-783.58	-301.40	600.89	540.22	60.67	9.904		
12,900.00	12,068.70	12,713.77	11,883.73	45.31	44.68	72.06	-883.51	-299.97	600.56	539.18	61.38	9.784		
13,000.00	12,065.22	12,813.77	11,880.24	45.89	45.27	72.05	-983.44	-298.54	600.23	538.07	62.16	9.656		
13,100.00	12,061.73	12,913.76	11,876.76	46.52	45.90	72.04	-1,083.37	-297.11	599.90	536.89	63.01	9.521		
13,200.00	12,058.24	13,013.76	11,873.27	47.20	46.59	72.03	-1,183.30	-295.68	599.57	535.64	63.92	9.380		
13,300.00	12,054.76	13,113.76	11,869.79	47.93	47.33	72.02	-1,283.23	-294.25	599.24	534.34	64.90	9.233		
13,400.00	12,051.27	13,213.76	11,866.30	48.70	48.11	72.01	-1,383.15	-292.81	598.91	532.97	65.94	9.083		
13,500.00	12,047.78	13,313.76	11,862.82	49.51	48.93	72.00	-1,483.08	-291.38	598.58	531.54	67.04	8.929		
13,600.00	12,044.29	13,413.76	11,859.33	50.37	49.79	71.99	-1,583.01	-289.95	598.25	530.06	68.19	8.773		
13,700.00	12,040.81	13,513.76	11,855.85	51.26	50.70	71.98	-1,682.94	-288.52	597.92	528.52	69.40	8.616		
13,800.00	12,037.32	13,613.76	11,852.36	52.19	51.64	71.97	-1,782.87	-287.09	597.59	526.94	70.65	8.458		
13,900.00	12,033.83	13,713.76	11,848.88	53.15	52.61	71.96	-1,882.80	-285.66	597.26	525.30	71.95	8.301		
14,000.00	12,030.35	13,813.76	11,845.39	54.15	53.62	71.95	-1,982.72	-284.22	596.92	523.63	73.30	8.144		
14,100.00	12,026.86	13,913.76	11,841.91	55.18	54.66	71.94	-2,082.65	-282.79	596.59	521.91	74.68	7.988		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design County Fair/Blue Ribbon - County Fair Fed Com 602H2 - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,200.00	12,023.37	14,013.76	11,838.42	56.24	55.72	71.93	-2,182.58	-281.36	596.26	520.15	76.11	7.834		
14,300.00	12,019.89	14,113.76	11,834.93	57.33	56.82	71.91	-2,282.51	-279.93	595.93	518.36	77.58	7.682		
14,400.00	12,016.40	14,213.76	11,831.45	58.44	57.94	71.90	-2,382.44	-278.50	595.60	516.53	79.08	7.532		
14,500.00	12,012.91	14,313.76	11,827.96	59.58	59.09	71.89	-2,482.37	-277.06	595.27	514.67	80.61	7.385		
14,600.00	12,009.43	14,413.76	11,824.48	60.74	60.26	71.88	-2,582.29	-275.63	594.94	512.77	82.17	7.240		
14,700.00	12,005.94	14,513.76	11,820.99	61.92	61.45	71.87	-2,682.22	-274.20	594.61	510.85	83.76	7.099		
14,800.00	12,002.45	14,613.75	11,817.51	63.13	62.67	71.86	-2,782.15	-272.77	594.28	508.90	85.39	6.960		
14,900.00	11,998.96	14,713.75	11,814.02	64.35	63.90	71.85	-2,882.08	-271.34	593.95	506.92	87.03	6.825		
15,000.00	11,995.48	14,813.75	11,810.54	65.60	65.15	71.84	-2,982.01	-269.91	593.62	504.92	88.70	6.692		
15,100.00	11,991.99	14,913.75	11,807.05	66.86	66.42	71.83	-3,081.94	-268.47	593.29	502.90	90.40	6.563		
15,200.00	11,988.50	15,013.75	11,803.57	68.13	67.71	71.82	-3,181.86	-267.04	592.96	500.85	92.11	6.437		
15,300.00	11,985.02	15,113.75	11,800.08	69.43	69.01	71.81	-3,281.79	-265.61	592.63	498.79	93.85	6.315		
15,400.00	11,981.53	15,213.75	11,796.60	70.73	70.32	71.80	-3,381.72	-264.18	592.30	496.70	95.60	6.195		
15,500.00	11,978.04	15,313.75	11,793.11	72.06	71.65	71.79	-3,481.65	-262.75	591.97	494.60	97.38	6.079		
15,600.00	11,974.56	15,413.75	11,789.63	73.39	73.00	71.78	-3,581.58	-261.32	591.65	492.48	99.17	5.966		
15,700.00	11,971.07	15,513.75	11,786.14	74.74	74.35	71.77	-3,681.51	-259.88	591.32	490.34	100.97	5.856		
15,800.00	11,967.58	15,613.75	11,782.65	76.10	75.72	71.76	-3,781.43	-258.45	590.99	488.19	102.80	5.749		
15,900.00	11,964.09	15,713.75	11,779.17	77.47	77.10	71.75	-3,881.36	-257.02	590.66	486.02	104.63	5.645		
16,000.00	11,960.61	15,813.75	11,775.68	78.85	78.49	71.74	-3,981.29	-255.59	590.33	483.84	106.48	5.544		
16,100.00	11,957.12	15,913.75	11,772.20	80.24	79.88	71.73	-4,081.22	-254.16	590.00	481.65	108.34	5.446		
16,200.00	11,953.63	16,013.75	11,768.71	81.65	81.29	71.72	-4,181.15	-252.73	589.67	479.45	110.22	5.350		
16,300.00	11,950.15	16,113.75	11,765.23	83.06	82.71	71.71	-4,281.08	-251.29	589.34	477.23	112.10	5.257		
16,400.00	11,946.66	16,213.75	11,761.74	84.48	84.14	71.70	-4,381.01	-249.86	589.01	475.01	114.00	5.167		
16,500.00	11,943.17	16,313.74	11,758.26	85.90	85.57	71.69	-4,480.93	-248.43	588.68	472.77	115.91	5.079		
16,600.00	11,939.69	16,413.74	11,754.77	87.34	87.01	71.68	-4,580.86	-247.00	588.35	470.53	117.82	4.994		
16,700.00	11,936.20	16,513.74	11,751.29	88.78	88.46	71.67	-4,680.79	-245.57	588.02	468.27	119.75	4.911		
16,800.00	11,932.71	16,613.74	11,747.80	90.23	89.92	71.66	-4,780.72	-244.14	587.69	466.01	121.68	4.830		
16,900.00	11,929.23	16,713.74	11,744.32	91.69	91.38	71.65	-4,880.65	-242.70	587.36	463.74	123.62	4.751		
17,000.00	11,925.74	16,813.74	11,740.83	93.15	92.85	71.64	-4,980.58	-241.27	587.03	461.46	125.57	4.675		
17,100.00	11,922.25	16,913.74	11,737.35	94.62	94.32	71.62	-5,080.50	-239.84	586.70	459.17	127.53	4.601		
17,200.00	11,918.76	17,013.74	11,733.86	96.10	95.80	71.61	-5,180.43	-238.41	586.37	456.88	129.49	4.528		
17,300.00	11,915.28	17,113.74	11,730.37	97.58	97.29	71.60	-5,280.36	-236.98	586.04	454.58	131.46	4.458		
17,400.00	11,911.79	17,213.74	11,726.89	99.06	98.78	71.59	-5,380.29	-235.55	585.71	452.28	133.43	4.390		
17,500.00	11,908.30	17,313.74	11,723.40	100.56	100.28	71.58	-5,480.22	-234.11	585.38	449.97	135.41	4.323		
17,600.00	11,904.82	17,413.74	11,719.92	102.05	101.78	71.57	-5,580.15	-232.68	585.05	447.65	137.40	4.258		
17,700.00	11,901.33	17,513.74	11,716.43	103.55	103.28	71.56	-5,680.07	-231.25	584.72	445.33	139.39	4.195		
17,800.00	11,897.84	17,613.74	11,712.95	105.06	104.79	71.55	-5,780.00	-229.82	584.39	443.01	141.39	4.133		
17,900.00	11,894.36	17,713.74	11,709.46	106.57	106.31	71.54	-5,879.93	-228.39	584.06	440.68	143.39	4.073		
18,000.00	11,890.87	17,813.74	11,705.98	108.08	107.83	71.53	-5,979.86	-226.96	583.73	438.34	145.39	4.015		
18,100.00	11,887.38	17,913.73	11,702.49	109.60	109.35	71.52	-6,079.79	-225.52	583.41	436.00	147.40	3.958		
18,200.00	11,883.90	18,013.73	11,699.01	111.12	110.87	71.51	-6,179.72	-224.09	583.08	433.66	149.41	3.902		
18,300.00	11,880.41	18,113.73	11,695.52	112.65	112.40	71.50	-6,279.64	-222.66	582.75	431.32	151.43	3.848		
18,400.00	11,876.92	18,213.73	11,692.04	114.18	113.94	71.49	-6,379.57	-221.23	582.42	428.97	153.45	3.795		
18,500.00	11,873.43	18,313.73	11,688.55	115.71	115.47	71.48	-6,479.50	-219.80	582.09	426.62	155.47	3.744		
18,600.00	11,869.95	18,413.73	11,685.07	117.24	117.01	71.47	-6,579.43	-218.37	581.76	424.26	157.50	3.694		
18,700.00	11,866.46	18,513.73	11,681.58	118.78	118.55	71.45	-6,679.36	-216.93	581.43	421.90	159.53	3.645		
18,800.00	11,862.97	18,613.73	11,678.09	120.32	120.10	71.44	-6,779.29	-215.50	581.10	419.54	161.56	3.597		
18,900.00	11,859.49	18,713.73	11,674.61	121.87	121.65	71.43	-6,879.22	-214.07	580.77	417.18	163.59	3.550		
19,000.00	11,856.00	18,813.73	11,671.12	123.42	123.20	71.42	-6,979.14	-212.64	580.44	414.82	165.63	3.505		
19,100.00	11,852.51	18,913.73	11,667.64	124.96	124.75	71.41	-7,079.07	-211.21	580.11	412.45	167.66	3.460		
19,200.00	11,849.03	19,013.73	11,664.15	126.52	126.31	71.40	-7,179.00	-209.77	579.78	410.08	169.70	3.416		
19,300.00	11,845.54	19,113.73	11,660.67	128.07	127.86	71.39	-7,278.93	-208.34	579.45	407.71	171.75	3.374		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												County Fair/Blue Ribbon - County Fair Fed Com 602H2 - OH - Plan #1		Offset Site Error: 0.00 usft	
Survey Program: 0-OWSG (Rev2) MWD												Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,400.00	11,842.05	19,213.73	11,657.18	129.63	129.43	71.38	-7,378.86	-206.91	579.13	405.34	173.79	3.332			
19,500.00	11,838.57	19,313.73	11,653.70	131.19	130.99	71.37	-7,478.79	-205.48	578.80	402.96	175.83	3.292			
19,600.00	11,835.08	19,413.73	11,650.21	132.75	132.55	71.36	-7,578.71	-204.05	578.47	400.59	177.88	3.252			
19,700.00	11,831.59	19,513.73	11,646.73	134.31	134.12	71.35	-7,678.64	-202.62	578.14	398.21	179.93	3.213			
19,800.00	11,828.10	19,613.72	11,643.24	135.88	135.69	71.34	-7,778.57	-201.18	577.81	395.83	181.97	3.175			
19,900.00	11,824.62	19,713.72	11,639.76	137.45	137.26	71.33	-7,878.50	-199.75	577.48	393.46	184.02	3.138			
20,000.00	11,821.13	19,813.72	11,636.27	139.02	138.83	71.31	-7,978.43	-198.32	577.15	391.08	186.07	3.102			
20,100.00	11,817.64	19,913.72	11,632.79	140.59	140.41	71.30	-8,078.36	-196.89	576.82	388.70	188.13	3.066			
20,200.00	11,814.16	20,013.72	11,629.30	142.16	141.98	71.29	-8,178.28	-195.46	576.49	386.32	190.18	3.031			
20,300.00	11,810.67	20,113.72	11,625.81	143.74	143.56	71.28	-8,278.21	-194.03	576.16	383.93	192.23	2.997			
20,400.00	11,807.18	20,213.72	11,622.33	145.31	145.14	71.27	-8,378.14	-192.59	575.84	381.55	194.28	2.964			
20,500.00	11,803.70	20,313.72	11,618.84	146.89	146.72	71.26	-8,478.07	-191.16	575.51	379.17	196.34	2.931			
20,600.00	11,800.21	20,413.72	11,615.36	148.47	148.30	71.25	-8,578.00	-189.73	575.18	376.79	198.39	2.899			
20,700.00	11,796.72	20,513.72	11,611.87	150.05	149.89	71.24	-8,677.93	-188.30	574.85	374.40	200.44	2.868			
20,800.00	11,793.23	20,613.72	11,608.39	151.63	151.47	71.23	-8,777.85	-186.87	574.52	372.02	202.50	2.837			
20,900.00	11,789.75	20,713.72	11,604.90	153.22	153.06	71.22	-8,877.78	-185.44	574.19	369.64	204.55	2.807			
21,000.00	11,786.26	20,813.72	11,601.42	154.80	154.65	71.20	-8,977.71	-184.00	573.86	367.26	206.61	2.778			
21,100.00	11,782.77	20,913.72	11,597.93	156.39	156.24	71.19	-9,077.64	-182.57	573.53	364.87	208.66	2.749			
21,200.00	11,779.29	21,013.72	11,594.45	157.98	157.83	71.18	-9,177.57	-181.14	573.21	362.49	210.72	2.720			
21,300.00	11,775.80	21,113.72	11,590.96	159.57	159.42	71.17	-9,277.50	-179.71	572.88	360.11	212.77	2.692			
21,400.00	11,772.31	21,213.72	11,587.48	161.16	161.02	71.16	-9,377.42	-178.28	572.55	357.73	214.82	2.665			
21,500.00	11,768.83	21,313.71	11,583.99	162.75	162.61	71.15	-9,477.35	-176.85	572.22	355.34	216.88	2.638			
21,600.00	11,765.34	21,413.71	11,580.51	164.35	164.21	71.14	-9,577.28	-175.41	571.89	352.96	218.93	2.612			
21,700.00	11,761.85	21,513.71	11,577.02	165.94	165.80	71.13	-9,677.21	-173.98	571.56	350.58	220.98	2.586			
21,800.00	11,758.37	21,613.71	11,573.53	167.54	167.40	71.12	-9,777.14	-172.55	571.23	348.20	223.03	2.561			
21,900.00	11,754.88	21,713.71	11,570.05	169.13	169.00	71.11	-9,877.07	-171.12	570.90	345.82	225.08	2.536			
22,000.00	11,751.39	21,813.71	11,566.56	170.73	170.60	71.09	-9,977.00	-169.69	570.58	343.44	227.13	2.512			
22,100.00	11,747.90	21,913.71	11,563.08	172.33	172.20	71.08	-10,076.92	-168.26	570.25	341.07	229.18	2.488			
22,200.00	11,744.42	22,013.71	11,559.59	173.93	173.78	71.07	-10,176.85	-166.82	569.92	338.71	231.21	2.465			
22,244.96	11,742.85	22,058.67	11,558.03	174.65	174.42	71.07	-10,221.78	-166.18	569.77	337.70	232.07	2.455 SF			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	0.00	0.00	-117.09	-35.63	-69.67	78.25							
100.00	100.00	99.27	99.27	0.13	0.24	-117.13	-35.76	-69.79	78.42	78.15	0.27	289.530	ES			
200.00	200.00	198.66	198.65	0.48	0.59	-117.07	-36.23	-70.90	79.63	78.86	0.76	104.100				
300.00	300.00	298.18	298.15	0.84	0.95	-116.70	-36.53	-72.64	81.33	80.06	1.27	64.154				
400.00	400.00	397.68	397.61	1.20	1.31	-115.71	-36.36	-75.52	83.85	82.08	1.77	47.327				
500.00	500.00	497.28	497.16	1.56	1.66	-114.65	-36.11	-78.70	86.63	84.35	2.28	38.050				
600.00	600.00	597.34	597.16	1.92	2.03	-113.33	-35.49	-82.27	89.64	86.85	2.78	32.206				
700.00	700.00	696.78	696.52	2.28	2.38	-111.98	-34.71	-85.97	92.77	89.48	3.29	28.210				
800.00	800.00	796.03	795.66	2.63	2.75	-110.45	-33.79	-90.62	96.80	93.01	3.79	25.516				
900.00	900.00	895.97	895.48	2.99	3.11	-109.03	-32.94	-95.50	101.12	96.81	4.30	23.510				
1,000.00	1,000.00	995.42	994.80	3.35	3.47	-107.93	-32.47	-100.34	105.58	100.77	4.81	21.965				
1,100.00	1,100.00	1,095.44	1,094.69	3.71	3.84	-106.89	-32.07	-105.58	110.46	105.15	5.31	20.785				
1,200.00	1,200.00	1,196.87	1,196.03	4.07	4.21	-106.05	-31.58	-109.79	114.31	108.48	5.83	19.618				
1,300.00	1,300.00	1,297.30	1,296.40	4.43	4.51	-105.29	-30.93	-113.12	117.32	111.03	6.29	18.658				
1,400.00	1,400.00	1,397.02	1,396.06	4.79	4.70	-104.43	-29.96	-116.47	120.32	113.65	6.67	18.032				
1,500.00	1,500.00	1,493.97	1,492.89	5.14	4.78	-103.15	-28.25	-120.90	124.35	117.37	6.98	17.811				
1,600.00	1,600.00	1,589.56	1,588.10	5.50	4.85	-100.99	-24.98	-128.65	131.57	124.30	7.27	18.086				
1,700.00	1,700.00	1,687.23	1,685.10	5.86	4.96	-98.39	-20.53	-139.18	141.45	133.86	7.59	18.630				
1,800.00	1,800.00	1,786.93	1,784.08	6.22	5.10	-96.12	-16.12	-150.24	151.92	143.98	7.94	19.137				
1,900.00	1,900.00	1,886.26	1,882.75	6.58	5.27	-94.32	-12.15	-160.95	162.31	154.01	8.30	19.557				
2,000.00	2,000.00	1,985.90	1,981.74	6.94	5.46	-92.76	-8.28	-171.65	172.80	164.12	8.68	19.916				
2,100.00	2,100.00	2,085.31	2,080.52	7.29	5.67	-91.38	-4.38	-182.21	183.28	174.22	9.07	20.218				
2,200.00	2,200.00	2,185.34	2,179.92	7.65	5.90	-90.15	-0.49	-192.65	193.67	184.20	9.47	20.453				
2,300.00	2,300.00	2,285.13	2,279.12	8.01	6.15	-89.05	3.36	-202.79	203.87	193.99	9.88	20.632				
2,400.00	2,400.00	2,384.81	2,378.22	8.37	6.41	-88.01	7.38	-212.77	213.99	203.69	10.30	20.772				
2,500.00	2,499.99	2,484.91	2,477.75	8.72	6.69	-144.41	11.59	-222.58	225.03	214.30	10.73	20.973				
2,600.00	2,599.91	2,585.44	2,577.75	9.08	6.97	-143.91	15.95	-231.90	237.69	226.53	11.16	21.291				
2,700.13	2,699.82	2,685.43	2,677.25	9.43	7.26	-143.70	20.66	-240.69	252.01	240.40	11.60	21.718				
2,800.00	2,799.38	2,785.31	2,776.63	9.78	7.56	-143.69	25.86	-249.09	267.00	254.95	12.05	22.162				
2,900.00	2,899.07	2,886.68	2,877.53	10.14	7.87	-143.59	31.51	-256.95	281.37	268.87	12.50	22.506				
3,000.00	2,998.77	2,988.09	2,978.54	10.50	8.18	-143.46	37.37	-263.81	294.78	281.82	12.96	22.744				
3,100.00	3,098.46	3,083.76	3,073.84	10.86	8.48	-143.32	42.98	-270.18	308.11	294.70	13.40	22.986				
3,200.00	3,198.15	3,175.17	3,164.75	11.22	8.78	-143.24	48.24	-278.13	323.43	309.60	13.83	23.385				
3,300.00	3,297.84	3,270.71	3,259.60	11.58	9.10	-143.27	53.28	-288.40	340.74	326.46	14.28	23.864				
3,400.00	3,397.53	3,368.58	3,356.76	11.94	9.45	-143.30	58.38	-298.99	358.13	343.39	14.74	24.294				
3,500.00	3,497.22	3,467.21	3,454.70	12.30	9.79	-143.53	62.26	-310.01	375.79	360.58	15.21	24.705				
3,600.00	3,596.92	3,575.36	3,562.24	12.67	10.17	-143.96	65.05	-321.04	392.44	376.71	15.73	24.952				
3,700.00	3,696.61	3,680.97	3,667.52	13.03	10.52	-144.43	67.07	-329.19	406.58	390.35	16.23	25.055				
3,800.00	3,796.30	3,765.26	3,751.48	13.40	10.81	-144.80	68.56	-336.43	421.64	405.00	16.64	25.341				
3,900.00	3,895.99	3,852.81	3,838.38	13.77	11.13	-145.16	70.25	-346.86	439.98	422.92	17.06	25.793				
4,000.00	3,995.68	3,951.72	3,936.40	14.13	11.50	-145.53	72.17	-359.94	459.64	442.10	17.54	26.205				
4,100.00	4,095.37	4,053.67	4,037.55	14.50	11.88	-145.93	73.78	-372.57	478.49	460.45	18.04	26.522				
4,200.00	4,195.06	4,152.62	4,135.79	14.87	12.25	-146.28	75.41	-384.35	496.88	478.35	18.53	26.819				
4,300.00	4,294.76	4,257.41	4,239.89	15.24	12.64	-146.59	77.41	-396.19	514.68	495.64	19.04	27.026				
4,400.00	4,394.45	4,359.88	4,341.81	15.61	13.01	-146.87	79.35	-406.68	531.45	511.90	19.55	27.187				
4,500.00	4,494.14	4,462.55	4,443.98	15.98	13.39	-147.09	81.67	-416.43	547.50	527.44	20.05	27.302				
4,600.00	4,593.83	4,564.51	4,545.49	16.35	13.76	-147.21	84.92	-425.38	562.83	542.27	20.56	27.380				
4,700.00	4,693.52	4,661.59	4,642.14	16.72	14.11	-147.22	88.89	-433.72	577.99	556.95	21.04	27.471				
4,800.00	4,793.21	4,754.84	4,734.90	17.09	14.45	-147.26	92.41	-442.47	593.92	572.41	21.51	27.615				
4,900.00	4,892.90	4,851.01	4,830.53	17.46	14.81	-147.32	95.86	-452.14	610.53	588.54	21.99	27.766				
5,000.00	4,992.60	4,949.45	4,928.37	17.83	15.19	-147.34	99.74	-462.19	627.28	604.80	22.48	27.902				
5,100.00	5,092.29	5,047.53	5,025.85	18.20	15.56	-147.33	103.95	-472.25	644.09	621.12	22.97	28.035				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH											Offset Site Error:	0.00 usft
Survey Program:		35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND											Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,191.98	5,147.29	5,124.97	18.57	15.94	-147.30	108.46	-482.52	660.93	637.45	23.48	28.153		
5,300.00	5,291.67	5,250.10	5,227.18	18.94	16.33	-147.28	113.02	-492.63	677.31	653.32	23.99	28.229		
5,400.00	5,391.36	5,350.64	5,327.20	19.32	16.71	-147.29	117.20	-501.96	693.15	668.65	24.50	28.293		
5,500.00	5,491.05	5,449.38	5,425.44	19.69	17.08	-147.31	121.12	-511.09	708.96	683.96	25.00	28.362		
5,600.00	5,590.74	5,548.71	5,524.29	20.06	17.45	-147.35	124.73	-520.24	724.72	699.23	25.50	28.423		
5,700.00	5,690.44	5,649.03	5,624.13	20.43	17.83	-147.42	128.13	-529.34	740.35	714.35	26.00	28.471		
5,800.00	5,790.13	5,739.99	5,714.64	20.81	18.17	-147.46	131.34	-537.79	756.21	729.74	26.47	28.571		
5,900.00	5,889.82	5,830.28	5,804.31	21.18	18.52	-147.41	135.72	-547.35	773.34	746.41	26.93	28.719		
6,000.00	5,989.51	5,929.08	5,902.34	21.55	18.91	-147.32	141.15	-558.42	791.08	763.65	27.43	28.837		
6,100.00	6,089.20	6,034.78	6,007.32	21.93	19.32	-147.27	146.29	-569.63	808.23	780.26	27.97	28.896		
6,200.00	6,188.89	6,139.93	6,111.89	22.30	19.73	-147.29	150.44	-579.84	824.49	795.99	28.50	28.927		
6,300.00	6,288.58	6,238.72	6,210.20	22.67	20.10	-147.34	153.88	-589.03	840.35	811.35	29.00	28.973		
6,336.71	6,325.18	6,275.30	6,246.59	22.81	20.24	-147.36	155.12	-592.43	846.17	816.98	29.19	28.988		
6,400.00	6,388.31	6,338.53	6,309.52	23.05	20.48	-147.45	157.20	-598.28	855.74	826.23	29.51	28.997		
6,500.00	6,488.19	6,439.83	6,410.34	23.41	20.86	-147.51	160.50	-607.49	868.92	838.89	30.02	28.944		
6,600.00	6,588.16	6,543.04	6,513.11	23.77	21.25	-147.47	163.75	-616.46	879.51	848.97	30.54	28.803		
6,636.84	6,625.00	6,579.79	6,549.71	23.90	21.39	-90.14	164.90	-619.59	882.79	852.07	30.72	28.738		
6,700.00	6,688.16	6,638.11	6,607.79	24.12	21.61	-90.02	166.74	-624.60	888.23	857.22	31.01	28.642		
6,800.00	6,788.16	6,719.51	6,688.72	24.47	21.93	-89.82	169.74	-632.80	898.31	866.88	31.42	28.588		
6,900.00	6,888.16	6,811.71	6,780.23	24.81	22.29	-89.59	173.41	-643.38	909.81	877.92	31.88	28.536		
7,000.00	6,988.16	6,942.01	6,909.73	25.16	22.79	-89.33	177.72	-657.09	920.49	887.96	32.53	28.300		
7,100.00	7,088.16	7,074.13	7,041.58	25.51	23.26	-89.36	177.40	-665.35	926.57	893.43	33.14	27.963		
7,200.00	7,188.16	7,179.09	7,146.42	25.86	23.62	-89.42	176.47	-670.26	931.24	897.59	33.64	27.681		
7,300.00	7,288.16	7,311.98	7,279.25	26.21	24.05	-89.46	175.81	-673.49	933.58	899.36	34.21	27.289		
7,400.00	7,388.16	7,414.86	7,382.14	26.56	24.38	-89.48	175.56	-674.15	934.21	899.51	34.70	26.920		
7,500.00	7,488.16	7,514.23	7,481.51	26.91	24.69	-89.49	175.25	-674.89	934.94	899.76	35.19	26.570		
7,600.00	7,588.16	7,616.62	7,583.89	27.26	25.01	-89.52	174.82	-675.46	935.50	899.83	35.68	26.221		
7,700.00	7,688.16	7,718.04	7,685.31	27.61	25.32	-89.56	174.18	-675.82	935.85	899.69	36.16	25.880		
7,800.00	7,788.16	7,821.78	7,789.05	27.96	25.64	-89.61	173.32	-675.96	935.98	899.33	36.65	25.541		
7,900.00	7,888.16	7,928.24	7,895.49	28.31	25.95	-89.67	172.33	-675.49	935.53	898.41	37.13	25.197		
8,000.00	7,988.16	8,033.39	8,000.64	28.67	26.25	-89.75	171.05	-674.35	934.45	896.84	37.61	24.848		
8,100.00	8,088.16	8,134.75	8,101.97	29.02	26.54	-89.84	169.60	-672.91	933.01	894.93	38.08	24.502		
8,200.00	8,188.16	8,234.71	8,201.91	29.37	26.83	-89.94	168.00	-671.41	931.51	892.96	38.55	24.163		
8,300.00	8,288.16	8,333.94	8,301.11	29.72	27.12	-90.04	166.27	-669.95	930.05	891.02	39.02	23.833		
8,400.00	8,388.16	8,432.34	8,399.49	30.07	27.41	-90.16	164.34	-668.65	928.72	889.23	39.50	23.514		
8,500.00	8,488.16	8,529.77	8,496.90	30.42	27.70	-90.26	162.76	-667.52	927.57	887.60	39.97	23.208		
8,600.00	8,588.16	8,625.41	8,592.53	30.78	27.99	-90.28	162.46	-666.87	926.90	886.46	40.44	22.921		
8,700.00	8,688.16	8,724.55	8,691.67	31.13	28.29	-90.25	162.88	-666.43	926.45	885.53	40.92	22.642		
8,800.00	8,788.16	8,823.31	8,790.42	31.48	28.60	-90.23	163.28	-666.09	926.10	884.71	41.40	22.372		
8,898.98	8,887.14	8,919.83	8,886.94	31.83	28.90	-90.22	163.40	-665.95	925.95	884.08	41.87	22.115		
8,900.00	8,888.16	8,920.81	8,887.93	31.83	28.91	-90.22	163.40	-665.95	925.95	884.08	41.87	22.112		
9,000.00	8,988.16	9,018.78	8,985.90	32.19	29.22	-90.24	163.05	-666.10	926.11	883.75	42.36	21.864		
9,100.00	9,088.16	9,116.81	9,083.92	32.54	29.53	-90.33	161.61	-666.37	926.39	883.55	42.84	21.624		
9,200.00	9,188.16	9,213.15	9,180.23	32.89	29.84	-90.46	159.52	-666.97	927.03	883.71	43.32	21.400		
9,300.00	9,288.16	9,307.41	9,274.47	33.24	30.14	-90.57	157.84	-667.97	928.12	884.32	43.80	21.191		
9,400.00	9,388.16	9,427.47	9,394.50	33.60	30.53	-90.67	156.06	-669.14	929.23	884.91	44.32	20.965		
9,500.00	9,488.16	9,536.97	9,504.00	33.95	30.87	-90.67	156.21	-667.54	927.75	882.93	44.81	20.702		
9,600.00	9,588.16	9,630.36	9,597.38	34.30	31.15	-90.67	156.09	-666.24	926.35	881.07	45.29	20.455		
9,700.00	9,688.16	9,726.96	9,693.97	34.66	31.45	-90.71	155.53	-665.44	925.53	879.77	45.76	20.224		
9,800.00	9,788.16	9,825.02	9,792.02	35.01	31.76	-90.78	154.40	-664.90	924.99	878.75	46.24	20.002		
9,900.00	9,888.16	9,928.83	9,895.83	35.37	32.09	-90.80	154.03	-664.19	924.31	877.58	46.73	19.778		
10,000.00	9,988.16	10,026.18	9,993.16	35.72	32.39	-90.88	152.84	-663.46	923.59	876.37	47.22	19.561		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,097.99	10,086.15	10,118.99	10,085.95	36.07	32.69	-90.98	151.23	-663.16	923.30	875.61	47.68	19.363		
10,100.00	10,088.16	10,120.85	10,087.82	36.07	32.70	-90.98	151.21	-663.16	923.30	875.60	47.69	19.359		
10,200.00	10,188.16	10,214.93	10,181.90	36.43	33.01	-91.00	150.80	-663.53	923.69	875.52	48.17	19.174		
10,300.00	10,288.16	10,317.18	10,284.14	36.78	33.35	-91.00	150.93	-664.09	924.24	875.56	48.68	18.988		
10,400.00	10,388.16	10,422.14	10,389.10	37.14	33.70	-91.05	150.14	-664.30	924.45	875.28	49.18	18.799		
10,494.02	10,482.18	10,515.04	10,481.98	37.47	34.00	-91.14	148.60	-663.91	924.09	874.46	49.63	18.618		
10,500.00	10,488.16	10,520.00	10,486.95	37.49	34.01	-91.14	148.54	-663.91	924.10	874.43	49.66	18.608		
10,600.00	10,588.16	10,606.18	10,573.12	37.84	34.30	-91.16	148.22	-664.76	925.07	874.95	50.13	18.455		
10,700.00	10,688.16	10,703.00	10,669.93	38.20	34.64	-91.17	148.12	-666.61	926.97	876.36	50.62	18.314		
10,800.00	10,788.16	10,800.56	10,767.45	38.55	34.97	-91.23	147.06	-668.38	928.82	877.71	51.11	18.174		
10,900.00	10,888.16	10,890.77	10,857.62	38.91	35.28	-91.19	147.58	-671.00	931.69	880.12	51.58	18.064		
11,000.00	10,988.16	11,005.28	10,972.09	39.26	35.68	-91.18	147.81	-674.37	934.71	882.59	52.12	17.935		
11,100.00	11,088.16	11,118.99	11,085.79	39.62	36.07	-91.21	147.23	-674.97	935.18	882.54	52.64	17.765		
11,200.00	11,188.16	11,215.63	11,182.41	39.97	36.38	-91.32	145.40	-675.28	935.54	882.42	53.13	17.610		
11,300.00	11,288.16	11,308.55	11,275.29	40.33	36.69	-91.49	142.58	-676.08	936.49	882.88	53.60	17.470		
11,400.00	11,388.16	11,398.79	11,365.44	40.68	36.99	-91.71	138.99	-677.65	938.34	884.26	54.07	17.353		
11,500.00	11,488.16	11,491.62	11,458.12	41.04	37.31	-91.98	134.43	-680.14	941.18	886.63	54.55	17.254		
11,523.84	11,512.00	11,514.14	11,480.61	41.12	37.38	-92.04	133.48	-680.84	941.95	887.29	54.66	17.232		
11,550.00	11,538.15	11,538.75	11,505.18	41.21	37.47	88.47	132.49	-681.64	942.83	888.04	54.78	17.210		
11,600.00	11,587.94	11,585.57	11,551.93	41.37	37.63	88.42	130.29	-683.26	944.53	889.52	55.00	17.172		
11,650.00	11,637.15	11,629.16	11,595.42	41.52	37.78	88.55	127.76	-684.92	946.32	891.11	55.21	17.140		
11,700.00	11,685.40	11,668.10	11,634.14	41.66	37.91	88.74	124.19	-686.78	948.58	893.19	55.39	17.125		
11,750.00	11,732.34	11,725.80	11,691.19	41.80	38.10	89.24	116.05	-689.36	950.74	895.11	55.64	17.089		
11,800.00	11,777.59	11,770.92	11,735.35	41.93	38.24	89.66	106.98	-691.26	952.92	897.09	55.83	17.069		
11,850.00	11,820.83	11,817.25	11,779.95	42.05	38.39	90.12	94.68	-693.43	955.45	899.43	56.02	17.055		
11,900.00	11,861.72	11,889.35	11,846.18	42.15	38.59	90.82	66.57	-695.77	957.37	901.10	56.27	17.013		
11,950.00	11,899.94	11,976.21	11,919.75	42.25	38.78	91.49	20.67	-695.52	957.39	900.88	56.50	16.944		
11,984.85	11,924.86	12,008.60	11,945.41	42.30	38.84	91.72	0.91	-695.08	957.26	900.64	56.62	16.906		
12,000.00	11,935.21	12,020.57	11,954.66	42.33	38.87	91.81	-6.69	-694.97	957.29	900.62	56.67	16.892		
12,050.00	11,967.27	12,063.52	11,986.65	42.41	38.94	92.14	-35.32	-694.91	957.82	900.99	56.84	16.852		
12,100.00	11,995.85	12,117.33	12,023.52	42.49	39.04	92.53	-74.49	-695.09	958.70	901.69	57.01	16.816		
12,150.00	12,020.76	12,245.36	12,092.57	42.59	39.21	93.04	-181.71	-690.42	957.30	900.08	57.21	16.732		
12,200.00	12,041.79	12,281.58	12,071.10	42.71	39.26	93.26	-214.81	-688.28	954.77	897.38	57.39	16.636		
12,250.00	12,058.79	12,356.08	12,131.99	42.84	39.39	93.51	-284.83	-683.52	952.03	894.44	57.59	16.531		
12,300.00	12,071.63	12,421.05	12,145.07	42.97	39.53	93.65	-348.21	-678.74	948.74	890.94	57.80	16.414		
12,350.00	12,080.21	12,447.54	12,147.33	43.10	39.60	93.80	-374.55	-677.01	945.77	887.80	57.97	16.314		
12,400.00	12,084.46	12,470.00	12,147.98	43.24	39.66	93.85	-396.98	-676.24	944.47	886.34	58.13	16.247		
12,423.01	12,084.96	12,486.80	12,148.01	43.30	39.71	93.84	-413.78	-676.00	944.38	886.16	58.22	16.221		
12,443.82	12,084.61	12,500.25	12,147.99	43.36	39.75	93.84	-427.23	-675.93	944.52	886.22	58.29	16.203		
12,500.00	12,082.65	12,536.54	12,147.75	43.54	39.88	93.90	-463.52	-676.28	945.77	887.27	58.50	16.168		
12,600.00	12,079.16	12,615.90	12,147.45	43.90	40.18	94.03	-542.83	-679.02	950.43	891.48	58.95	16.123		
12,700.00	12,075.68	12,708.77	12,150.94	44.32	40.60	94.41	-635.54	-683.03	956.36	896.86	59.50	16.074		
12,800.00	12,072.19	12,850.97	12,156.46	44.79	41.34	95.01	-777.54	-687.25	961.28	901.02	60.26	15.953		
12,900.00	12,068.70	12,966.22	12,155.06	45.31	42.01	95.16	-892.77	-686.83	962.18	901.11	61.07	15.756		
13,000.00	12,065.22	13,079.05	12,153.49	45.89	42.74	95.30	-1,005.57	-685.26	962.11	900.16	61.95	15.530		
13,100.00	12,061.73	13,187.90	12,145.01	46.52	43.50	95.03	-1,114.04	-682.57	960.31	897.37	62.94	15.258		
13,200.00	12,058.24	13,269.97	12,135.66	47.20	44.13	94.65	-1,195.56	-681.19	959.08	895.17	63.91	15.007		
13,203.99	12,058.10	13,273.07	12,135.28	47.23	44.16	94.63	-1,198.64	-681.18	959.08	895.13	63.95	14.998		
13,300.00	12,054.76	13,361.29	12,124.73	47.93	44.87	94.18	-1,286.22	-681.40	959.71	894.72	64.98	14.769		
13,400.00	12,051.27	13,467.18	12,112.48	48.70	45.77	93.66	-1,391.40	-681.54	960.37	894.19	66.18	14.511		
13,500.00	12,047.78	13,569.11	12,101.20	49.51	46.68	93.20	-1,492.70	-681.05	960.52	893.09	67.42	14.246		
13,600.00	12,044.29	13,674.52	12,094.07	50.37	47.65	92.99	-1,597.86	-679.94	960.37	891.65	68.72	13.976		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													County Fair/Blue Ribbon - County Fair Fed Com 701H - OH - OH		Offset Site Error:	0.00 usft
Survey Program:													35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND		Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
13,700.00	12,040.81	13,780.60	12,088.58	51.26	48.67	92.89	-1,703.78	-677.89	959.42	889.36	70.06	13.694				
13,800.00	12,037.32	13,880.88	12,087.43	52.19	49.67	93.03	-1,804.01	-675.90	958.65	887.23	71.42	13.423				
13,900.00	12,033.83	13,999.61	12,085.10	53.15	50.88	93.15	-1,922.65	-671.81	956.33	883.42	72.91	13.117				
14,000.00	12,030.35	14,124.69	12,083.07	54.15	52.21	93.31	-2,047.51	-665.07	952.19	877.73	74.46	12.788				
14,100.00	12,026.86	14,218.46	12,083.21	55.18	53.23	93.53	-2,141.07	-658.74	946.75	870.82	75.93	12.469				
14,200.00	12,023.37	14,295.68	12,083.72	56.24	54.10	93.74	-2,218.18	-654.68	942.86	865.50	77.36	12.188				
14,280.59	12,020.56	14,351.44	12,084.92	57.12	54.74	93.93	-2,273.89	-653.05	941.71	863.23	78.48	11.999				
14,300.00	12,019.89	14,364.21	12,084.98	57.33	54.89	93.96	-2,286.66	-652.92	941.78	863.04	78.75	11.960				
14,400.00	12,016.40	14,446.30	12,083.42	58.44	55.84	94.03	-2,368.73	-653.91	944.04	863.81	80.23	11.767				
14,500.00	12,012.91	14,560.85	12,079.81	59.58	57.20	94.05	-2,483.22	-654.62	945.75	863.78	81.97	11.538				
14,600.00	12,009.43	14,651.01	12,076.72	60.74	58.29	94.05	-2,573.32	-654.73	947.00	863.42	83.58	11.331				
14,700.00	12,005.94	14,738.98	12,074.75	61.92	59.38	94.10	-2,661.25	-656.29	949.92	864.73	85.19	11.151				
14,800.00	12,002.45	14,842.83	12,074.95	63.13	60.67	94.32	-2,765.09	-658.41	953.31	866.39	86.92	10.967				
14,900.00	11,998.96	14,927.91	12,075.26	64.35	61.74	94.50	-2,850.15	-660.01	956.64	868.11	88.53	10.806				
15,000.00	11,995.48	15,023.53	12,075.77	65.60	62.96	94.71	-2,945.69	-663.87	962.04	871.80	90.24	10.660				
15,100.00	11,991.99	15,137.07	12,078.00	66.86	64.44	95.05	-3,059.16	-666.78	966.12	873.99	92.13	10.487				
15,200.00	11,988.50	15,244.51	12,082.45	68.13	65.85	95.52	-3,166.50	-668.30	969.32	875.36	93.96	10.316				
15,300.00	11,985.02	15,338.01	12,085.31	69.43	67.10	95.87	-3,259.94	-669.63	972.47	876.76	95.71	10.161				
15,400.00	11,981.53	15,405.83	12,085.88	70.73	68.01	96.02	-3,327.70	-672.03	977.57	880.35	97.21	10.056				
15,500.00	11,978.04	15,483.73	12,087.09	72.06	69.05	96.21	-3,405.42	-677.25	985.77	886.98	98.78	9.979				
15,600.00	11,974.56	15,580.91	12,088.78	73.39	70.37	96.45	-3,502.28	-684.81	995.15	894.55	100.59	9.893				
15,700.00	11,971.07	15,687.45	12,098.40	74.74	71.84	97.15	-3,608.15	-691.63	1,004.12	901.66	102.46	9.800				
15,800.00	11,967.58	15,792.80	12,109.46	76.10	73.31	97.93	-3,712.76	-697.41	1,012.52	908.23	104.29	9.708				
15,900.00	11,964.09	15,960.40	12,126.63	77.47	75.67	99.17	-3,879.40	-700.79	1,017.82	911.14	106.68	9.541				
16,000.00	11,960.61	16,088.24	12,133.86	78.85	77.48	99.84	-4,006.92	-697.42	1,017.70	909.03	108.67	9.365				
16,100.00	11,957.12	16,210.09	12,137.42	80.24	79.21	100.32	-4,128.55	-691.55	1,015.04	904.41	110.63	9.175				
16,200.00	11,953.63	16,325.98	12,148.91	81.65	80.88	101.24	-4,243.61	-684.14	1,012.45	900.05	112.40	9.008				
16,300.00	11,950.15	16,475.53	12,151.75	83.06	83.04	101.85	-4,392.30	-668.98	1,004.23	889.98	114.25	8.790				
16,400.00	11,946.66	16,558.00	12,150.61	84.48	84.23	102.03	-4,474.35	-660.79	995.93	879.74	116.19	8.572				
16,500.00	11,943.17	16,626.86	12,149.28	85.90	85.24	102.14	-4,543.01	-655.72	989.99	871.90	118.10	8.383				
16,600.00	11,939.69	16,707.96	12,146.86	87.34	86.43	102.20	-4,623.98	-651.80	986.41	866.40	120.01	8.219				
16,700.00	11,936.20	16,785.49	12,145.25	88.78	87.57	102.29	-4,701.45	-649.30	984.67	862.80	121.87	8.080				
16,716.08	11,935.64	16,797.10	12,145.31	89.02	87.74	102.31	-4,713.05	-649.05	984.63	862.49	122.15	8.061				
16,800.00	11,932.71	16,867.19	12,147.40	90.23	88.78	102.57	-4,783.10	-648.08	985.51	861.88	123.63	7.972				
16,900.00	11,929.23	16,965.13	12,151.23	91.69	90.23	102.99	-4,880.96	-646.62	986.76	861.29	125.47	7.864				
17,000.00	11,925.74	17,052.88	12,155.38	93.15	91.54	103.39	-4,968.61	-646.18	989.18	861.97	127.21	7.776				
17,100.00	11,922.25	17,153.76	12,161.31	94.62	93.05	103.91	-5,069.31	-645.93	992.21	863.19	129.03	7.690				
17,200.00	11,918.76	17,254.61	12,168.03	96.10	94.56	104.48	-5,169.93	-644.97	994.84	864.03	130.81	7.605				
17,300.00	11,915.28	17,350.20	12,174.73	97.58	96.00	105.03	-5,265.28	-644.42	998.01	865.49	132.53	7.531				
17,400.00	11,911.79	17,452.60	12,185.01	99.06	97.55	105.80	-5,367.15	-642.96	1,001.30	867.11	134.19	7.462				
17,500.00	11,908.30	17,528.31	12,196.30	100.56	98.70	106.58	-5,441.97	-641.02	1,005.22	869.76	135.46	7.421				
17,600.00	11,904.82	17,596.70	12,210.95	102.05	99.73	107.50	-5,508.76	-640.64	1,012.99	876.59	136.39	7.427				
17,700.00	11,901.33	17,785.28	12,244.58	103.55	102.59	109.74	-5,694.01	-633.48	1,016.83	878.67	138.16	7.360				
17,800.00	11,897.84	17,918.45	12,249.05	105.06	104.63	110.33	-5,826.86	-626.63	1,015.17	875.17	140.00	7.251				
17,900.00	11,894.36	18,032.44	12,247.31	106.57	106.37	110.53	-5,940.69	-620.84	1,012.13	870.20	141.92	7.131				
18,000.00	11,890.87	18,111.94	12,245.92	108.08	107.59	110.67	-6,020.06	-616.64	1,008.90	865.16	143.74	7.019				
18,100.00	11,887.38	18,213.46	12,242.17	109.60	109.16	110.69	-6,121.48	-614.24	1,007.64	861.88	145.77	6.913				
18,200.00	11,883.90	18,297.16	12,237.44	111.12	110.44	110.61	-6,205.02	-612.45	1,005.97	858.22	147.74	6.809				
18,215.35	11,883.36	18,308.30	12,236.72	111.36	110.62	110.59	-6,216.14	-612.43	1,005.94	857.90	148.04	6.795				
18,300.00	11,880.41	18,372.15	12,232.72	112.65	111.60	110.47	-6,279.86	-613.15	1,006.85	857.20	149.65	6.728				
18,400.00	11,876.92	18,458.85	12,230.08	114.18	112.93	110.43	-6,366.49	-614.93	1,009.90	858.35	151.55	6.664				
18,500.00	11,873.43	18,571.63	12,226.47	115.71	114.67	110.39	-6,479.20	-617.04	1,012.79	859.00	153.79	6.585				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



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Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
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Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 35-OWSG (Rev2) MWD, 1424-OWSG (Rev2) MWD, 22110-BLIND													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,600.00	11,869.95	18,668.36	12,222.01	117.24	116.17	110.28	-6,575.82	-618.33	1,014.68	858.79	155.89	6.509		
18,700.00	11,866.46	18,754.05	12,219.54	118.78	117.50	110.26	-6,661.44	-620.12	1,017.85	860.08	157.77	6.451		
18,800.00	11,862.97	18,851.72	12,220.85	120.32	119.01	110.45	-6,759.09	-621.73	1,022.09	862.47	159.62	6.403		
18,900.00	11,859.49	18,966.03	12,222.11	121.87	120.79	110.68	-6,873.38	-622.72	1,025.55	863.88	161.67	6.343		
19,000.00	11,856.00	19,073.21	12,223.43	123.42	122.47	110.93	-6,980.51	-622.21	1,027.78	864.19	163.59	6.283		
19,100.00	11,852.51	19,187.48	12,230.65	124.96	124.26	111.57	-7,094.48	-618.30	1,029.17	863.97	165.20	6.230		
19,200.00	11,849.03	19,303.51	12,239.47	126.52	126.08	112.35	-7,209.97	-611.59	1,028.93	862.30	166.63	6.175		
19,300.00	11,845.54	19,423.82	12,246.92	128.07	127.98	113.09	-7,329.76	-603.50	1,027.50	859.46	168.04	6.115		
19,400.00	11,842.05	19,508.79	12,253.69	129.63	129.32	113.73	-7,414.12	-596.02	1,025.02	855.71	169.31	6.054		
19,436.24	11,840.79	19,534.63	12,254.84	130.19	129.72	113.86	-7,439.90	-594.65	1,024.78	854.95	169.83	6.034		
19,500.00	11,838.57	19,591.65	12,255.89	131.19	130.62	114.04	-7,496.88	-592.90	1,025.00	854.13	170.87	5.999		
19,600.00	11,835.08	19,684.76	12,254.75	132.75	132.09	114.15	-7,589.97	-591.71	1,025.75	853.05	172.70	5.940		
19,700.00	11,831.59	19,790.84	12,251.02	134.31	133.76	114.12	-7,695.98	-592.12	1,027.10	852.28	174.82	5.875		
19,800.00	11,828.10	19,884.41	12,246.90	135.88	135.23	114.06	-7,789.46	-591.88	1,027.52	850.67	176.85	5.810		
19,900.00	11,824.62	19,971.60	12,245.16	137.45	136.60	114.09	-7,876.63	-592.30	1,029.54	850.85	178.69	5.762		
20,000.00	11,821.13	20,054.06	12,243.24	139.02	137.90	114.09	-7,959.05	-593.68	1,032.59	852.12	180.47	5.722		
20,100.00	11,817.64	20,135.75	12,244.67	140.59	139.19	114.24	-8,040.69	-595.76	1,037.97	855.97	182.00	5.703		
20,200.00	11,814.16	20,247.06	12,247.56	142.16	140.95	114.50	-8,151.95	-598.05	1,043.34	859.41	183.93	5.673		
20,300.00	11,810.67	20,345.50	12,249.54	143.74	142.51	114.71	-8,250.35	-599.51	1,047.97	862.30	185.67	5.644		
20,400.00	11,807.18	20,451.50	12,253.20	145.31	144.19	115.02	-8,356.28	-600.86	1,053.05	865.64	187.42	5.619		
20,500.00	11,803.70	20,538.81	12,256.14	146.89	145.57	115.27	-8,443.53	-601.47	1,057.65	868.77	188.88	5.600		
20,600.00	11,800.21	20,643.43	12,260.46	148.47	147.23	115.59	-8,548.05	-603.51	1,063.69	873.11	190.58	5.581		
20,700.00	11,796.72	20,720.13	12,262.95	150.05	148.45	115.78	-8,624.69	-605.01	1,069.49	877.63	191.87	5.574		
20,800.00	11,793.23	20,838.21	12,267.73	151.63	150.32	116.07	-8,742.57	-609.68	1,077.57	883.69	193.88	5.558		
20,900.00	11,789.75	20,968.78	12,270.93	153.22	152.40	116.40	-8,873.10	-610.24	1,081.48	885.53	195.95	5.519		
21,000.00	11,786.26	21,074.83	12,273.02	154.80	154.09	116.68	-8,979.12	-608.82	1,083.67	886.03	197.64	5.483		
21,100.00	11,782.77	21,172.58	12,273.43	156.39	155.65	116.83	-9,076.86	-608.90	1,086.46	887.07	199.39	5.449		
21,200.00	11,779.29	21,287.26	12,274.71	157.98	157.48	117.09	-9,191.52	-607.02	1,088.03	886.84	201.18	5.408		
21,300.00	11,775.80	21,413.26	12,276.82	159.57	159.50	117.47	-9,317.41	-602.60	1,088.30	885.47	202.82	5.366		
21,400.00	11,772.31	21,503.00	12,280.42	161.16	160.94	117.90	-9,406.90	-596.97	1,087.22	883.13	204.08	5.327		
21,424.97	11,771.44	21,525.55	12,281.30	161.56	161.30	118.00	-9,429.39	-595.71	1,087.10	882.70	204.40	5.319		
21,500.00	11,768.83	21,576.51	12,282.84	162.75	162.12	118.18	-9,480.30	-594.03	1,087.93	882.58	205.35	5.298		
21,600.00	11,765.34	21,666.30	12,284.33	164.35	163.55	118.38	-9,570.08	-593.62	1,090.90	884.03	206.87	5.273		
21,700.00	11,761.85	21,752.59	12,285.72	165.94	164.94	118.56	-9,656.35	-593.87	1,094.55	886.20	208.35	5.253		
21,800.00	11,758.37	21,843.29	12,289.18	167.54	166.39	118.82	-9,746.98	-594.41	1,099.52	889.79	209.73	5.243		
21,900.00	11,754.88	21,987.57	12,294.38	169.13	168.70	119.29	-9,891.14	-592.86	1,103.07	891.47	211.59	5.213		
22,000.00	11,751.39	22,083.32	12,297.32	170.73	173.72	119.62	-9,986.80	-589.94	1,104.58	889.57	215.01	5.137		
22,100.00	11,747.90	22,110.00	12,298.25	172.33	177.21	119.72	-10,013.45	-589.11	1,108.68	891.39	217.29	5.102 SF		
22,200.00	11,744.42	22,110.00	12,298.25	173.93	177.21	119.72	-10,013.45	-589.11	1,121.39	905.60	215.79	5.197		
22,244.96	11,742.85	22,110.00	12,298.25	174.65	177.21	119.72	-10,013.45	-589.11	1,129.95	915.39	214.56	5.266		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-90.52	-0.64	-69.98	69.98					
100.00	100.00	100.00	100.00	0.13	0.13	-90.52	-0.64	-69.98	69.98	69.81	0.18	394.415		
200.00	200.00	200.00	200.00	0.48	0.48	-90.52	-0.64	-69.98	69.98	69.30	0.68	102.256		
300.00	300.00	300.00	300.00	0.84	0.84	-90.52	-0.64	-69.98	69.98	68.79	1.19	58.743		
400.00	400.00	400.00	400.00	1.20	1.20	-90.52	-0.64	-69.98	69.98	68.28	1.70	41.208		
500.00	500.00	500.00	500.00	1.56	1.56	-90.52	-0.64	-69.98	69.98	67.78	2.21	31.735		
600.00	600.00	600.00	600.00	1.92	1.92	-90.52	-0.64	-69.98	69.98	67.27	2.71	25.803		
700.00	700.00	700.00	700.00	2.28	2.28	-90.52	-0.64	-69.98	69.98	66.76	3.22	21.739		
800.00	800.00	800.00	800.00	2.63	2.63	-90.52	-0.64	-69.98	69.98	66.26	3.73	18.782		
900.00	900.00	900.00	900.00	2.99	2.99	-90.52	-0.64	-69.98	69.98	65.75	4.23	16.532		
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-90.52	-0.64	-69.98	69.98	65.24	4.74	14.764		
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	-90.52	-0.64	-69.98	69.98	64.74	5.25	13.338		
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	-90.52	-0.64	-69.98	69.98	64.23	5.75	12.163		
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	-90.52	-0.64	-69.98	69.98	63.72	6.26	11.178		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-90.52	-0.64	-69.98	69.98	63.22	6.77	10.340 CC, ES		
1,500.00	1,500.00	1,498.18	1,498.17	5.14	5.13	-90.51	-0.64	-71.24	71.27	64.01	7.26	9.814		
1,600.00	1,600.00	1,596.23	1,596.14	5.50	5.47	-90.49	-0.64	-75.02	75.12	67.37	7.75	9.697		
1,700.00	1,700.00	1,694.02	1,693.73	5.86	5.81	-90.45	-0.64	-81.29	81.53	73.31	8.23	9.911		
1,800.00	1,800.00	1,791.43	1,790.74	6.22	6.15	-90.41	-0.64	-90.02	90.50	81.79	8.70	10.400		
1,900.00	1,900.00	1,888.33	1,887.00	6.58	6.50	-90.36	-0.64	-101.15	101.99	92.82	9.17	11.122		
2,000.00	2,000.00	1,985.93	1,983.67	6.94	6.86	-90.32	-0.64	-114.57	115.73	106.08	9.65	11.995		
2,100.00	2,100.00	2,084.93	2,081.68	7.29	7.23	-90.29	-0.64	-128.53	129.83	119.69	10.15	12.798		
2,200.00	2,200.00	2,183.93	2,179.69	7.65	7.60	-90.26	-0.64	-142.50	143.94	133.30	10.64	13.523		
2,300.00	2,300.00	2,282.93	2,277.70	8.01	7.98	-90.23	-0.64	-156.47	158.05	146.90	11.14	14.183		
2,400.00	2,400.00	2,381.93	2,375.71	8.37	8.37	-90.22	-0.64	-170.43	172.15	160.51	11.64	14.784		
2,500.00	2,499.99	2,480.76	2,473.56	8.72	8.75	-147.58	-0.64	-184.37	187.35	175.21	12.14	15.429		
2,600.00	2,599.91	2,579.22	2,571.03	9.08	9.14	-148.01	-0.64	-198.26	204.75	192.11	12.64	16.200		
2,700.13	2,699.82	2,677.35	2,668.18	9.43	9.53	-148.68	-0.64	-212.11	224.38	211.24	13.13	17.083		
2,800.00	2,799.38	2,774.99	2,764.84	9.78	9.92	-149.54	-0.64	-225.88	245.10	231.47	13.63	17.986		
2,900.00	2,899.07	2,872.75	2,861.63	10.14	10.31	-150.27	-0.64	-239.67	265.90	251.77	14.12	18.829		
3,000.00	2,998.77	2,970.97	2,958.87	10.50	10.71	-150.86	-0.52	-253.51	286.70	272.08	14.62	19.610		
3,100.00	3,098.46	3,070.43	3,057.34	10.86	11.11	-151.02	1.54	-267.27	307.14	292.01	15.13	20.300		
3,200.00	3,198.15	3,168.61	3,154.54	11.22	11.51	-150.88	5.17	-280.62	327.24	311.61	15.63	20.936		
3,300.00	3,297.84	3,266.56	3,251.52	11.58	11.90	-150.75	8.82	-293.94	347.35	331.22	16.13	21.534		
3,400.00	3,397.53	3,364.52	3,348.49	11.94	12.30	-150.63	12.46	-307.27	367.46	350.82	16.63	22.094		
3,500.00	3,497.22	3,462.47	3,445.47	12.30	12.70	-150.52	16.11	-320.59	387.56	370.43	17.13	22.620		
3,600.00	3,596.92	3,560.43	3,542.45	12.67	13.10	-150.43	19.75	-333.91	407.67	390.04	17.64	23.116		
3,700.00	3,696.61	3,658.38	3,639.42	13.03	13.50	-150.34	23.39	-347.23	427.78	409.64	18.14	23.583		
3,800.00	3,796.30	3,756.34	3,736.40	13.40	13.90	-150.27	27.04	-360.56	447.90	429.25	18.64	24.024		
3,900.00	3,895.99	3,854.29	3,833.38	13.77	14.31	-150.19	30.68	-373.88	468.01	448.86	19.15	24.442		
4,000.00	3,995.68	3,952.25	3,930.35	14.13	14.71	-150.13	34.33	-387.20	488.12	468.47	19.65	24.837		
4,100.00	4,095.37	4,050.20	4,027.33	14.50	15.11	-150.07	37.97	-400.52	508.23	488.07	20.16	25.212		
4,200.00	4,195.06	4,148.16	4,124.31	14.87	15.52	-150.01	41.62	-413.85	528.35	507.68	20.66	25.568		
4,300.00	4,294.76	4,246.11	4,221.28	15.24	15.92	-149.96	45.26	-427.17	548.46	527.29	21.17	25.906		
4,400.00	4,394.45	4,344.07	4,318.26	15.61	16.33	-149.91	48.90	-440.49	568.58	546.90	21.68	26.228		
4,500.00	4,494.14	4,442.02	4,415.24	15.98	16.73	-149.87	52.55	-453.81	588.69	566.51	22.19	26.535		
4,600.00	4,593.83	4,539.98	4,512.21	16.35	17.14	-149.83	56.19	-467.14	608.81	586.11	22.69	26.828		
4,700.00	4,693.52	4,637.93	4,609.19	16.72	17.55	-149.79	59.84	-480.46	628.92	605.72	23.20	27.108		
4,800.00	4,793.21	4,735.89	4,706.16	17.09	17.95	-149.75	63.48	-493.78	649.04	625.33	23.71	27.375		
4,900.00	4,892.90	4,833.84	4,803.14	17.46	18.36	-149.72	67.13	-507.10	669.15	644.94	24.22	27.631		
5,000.00	4,992.60	4,931.80	4,900.12	17.83	18.77	-149.68	70.77	-520.43	689.27	664.54	24.73	27.876		
5,100.00	5,092.29	5,029.75	4,997.09	18.20	19.18	-149.65	74.41	-533.75	709.39	684.15	25.24	28.110		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,191.98	5,127.71	5,094.07	18.57	19.59	-149.63	78.06	-547.07	729.50	703.76	25.75	28.335		
5,300.00	5,291.67	5,225.66	5,191.05	18.94	19.99	-149.60	81.70	-560.39	749.62	723.36	26.25	28.552		
5,400.00	5,391.36	5,323.62	5,288.02	19.32	20.40	-149.57	85.35	-573.72	769.74	742.97	26.76	28.759		
5,500.00	5,491.05	5,421.57	5,385.00	19.69	20.81	-149.55	88.99	-587.04	789.85	762.58	27.27	28.959		
5,600.00	5,590.74	5,519.53	5,481.98	20.06	21.22	-149.52	92.63	-600.36	809.97	782.18	27.79	29.151		
5,700.00	5,690.44	5,617.48	5,578.95	20.43	21.63	-149.50	96.28	-613.68	830.09	801.79	28.30	29.336		
5,800.00	5,790.13	5,715.44	5,675.93	20.81	22.04	-149.48	99.92	-627.01	850.20	821.40	28.81	29.514		
5,900.00	5,889.82	5,813.39	5,772.91	21.18	22.45	-149.46	103.57	-640.33	870.32	841.00	29.32	29.686		
6,000.00	5,989.51	5,911.35	5,869.88	21.55	22.86	-149.44	107.21	-653.65	890.44	860.61	29.83	29.852		
6,100.00	6,089.20	6,009.31	5,968.86	21.93	23.27	-149.42	110.86	-666.97	910.56	880.22	30.34	30.012		
6,200.00	6,188.89	6,107.26	6,063.83	22.30	23.68	-149.41	114.50	-680.30	930.68	899.82	30.85	30.166		
6,300.00	6,288.58	6,205.22	6,160.81	22.67	24.09	-149.39	118.14	-693.62	950.79	919.43	31.36	30.316		
6,336.71	6,325.18	6,241.18	6,196.41	22.81	24.24	-149.38	119.48	-698.51	958.18	926.63	31.55	30.369		
6,400.00	6,388.31	6,303.26	6,257.87	23.05	24.50	-149.45	121.79	-706.95	970.47	938.59	31.87	30.447		
6,500.00	6,488.19	6,401.68	6,355.31	23.41	24.92	-149.48	125.45	-720.34	988.08	955.70	32.38	30.511		
6,600.00	6,588.16	6,500.43	6,453.08	23.77	25.33	-149.42	129.13	-733.77	1,003.47	970.58	32.89	30.506		
6,636.84	6,625.00	6,536.89	6,489.17	23.90	25.48	-92.09	130.48	-738.73	1,008.58	975.50	33.08	30.488		
6,700.00	6,688.16	6,599.42	6,551.08	24.12	25.75	-91.94	132.81	-747.23	1,017.09	983.69	33.40	30.451		
6,800.00	6,788.16	6,698.42	6,649.09	24.47	26.16	-91.71	136.49	-760.70	1,030.58	996.67	33.91	30.393		
6,900.00	6,888.16	6,797.42	6,747.10	24.81	26.58	-91.49	140.18	-774.16	1,044.08	1,009.67	34.42	30.337		
7,000.00	6,988.16	6,896.42	6,845.11	25.16	26.99	-91.27	143.86	-787.63	1,057.60	1,022.68	34.92	30.283		
7,100.00	7,088.16	6,997.92	6,945.60	25.51	27.42	-91.05	147.63	-801.42	1,071.13	1,035.68	35.45	30.219		
7,200.00	7,188.16	7,134.07	7,080.74	25.86	27.97	-90.80	151.98	-817.30	1,082.75	1,046.62	36.13	29.967		
7,300.00	7,288.16	7,271.24	7,217.40	26.21	28.49	-90.63	155.07	-828.59	1,090.95	1,054.18	36.78	29.663		
7,400.00	7,388.16	7,409.07	7,355.06	26.56	28.98	-90.53	156.86	-835.16	1,095.71	1,058.32	37.39	29.307		
7,500.00	7,488.16	7,542.19	7,488.16	26.91	29.42	-90.50	157.36	-836.98	1,097.02	1,059.08	37.95	28.910		
7,600.00	7,588.16	7,642.19	7,588.16	27.26	29.74	-90.50	157.36	-836.98	1,097.02	1,058.59	38.43	28.543		
7,700.00	7,688.16	7,742.19	7,688.16	27.61	30.06	-90.50	157.36	-836.98	1,097.02	1,058.10	38.92	28.184		
7,800.00	7,788.16	7,842.19	7,788.16	27.96	30.38	-90.50	157.36	-836.98	1,097.02	1,057.61	39.41	27.834		
7,900.00	7,888.16	7,942.19	7,888.16	28.31	30.70	-90.50	157.36	-836.98	1,097.02	1,057.12	39.90	27.492		
8,000.00	7,988.16	8,042.19	7,988.16	28.67	31.02	-90.50	157.36	-836.98	1,097.02	1,056.63	40.39	27.158		
8,100.00	8,088.16	8,142.19	8,088.16	29.02	31.34	-90.50	157.36	-836.98	1,097.02	1,056.14	40.89	26.832		
8,200.00	8,188.16	8,242.19	8,188.16	29.37	31.66	-90.50	157.36	-836.98	1,097.02	1,055.65	41.38	26.513		
8,300.00	8,288.16	8,342.19	8,288.16	29.72	31.98	-90.50	157.36	-836.98	1,097.02	1,055.15	41.87	26.201		
8,400.00	8,388.16	8,442.19	8,388.16	30.07	32.30	-90.50	157.36	-836.98	1,097.02	1,054.66	42.36	25.897		
8,500.00	8,488.16	8,542.19	8,488.16	30.42	32.63	-90.50	157.36	-836.98	1,097.02	1,054.17	42.85	25.599		
8,600.00	8,588.16	8,642.19	8,588.16	30.78	32.95	-90.50	157.36	-836.98	1,097.02	1,053.68	43.35	25.308		
8,700.00	8,688.16	8,742.19	8,688.16	31.13	33.28	-90.50	157.36	-836.98	1,097.02	1,053.18	43.84	25.024		
8,800.00	8,788.16	8,842.19	8,788.16	31.48	33.60	-90.50	157.36	-836.98	1,097.02	1,052.69	44.33	24.745		
8,900.00	8,888.16	8,942.19	8,888.16	31.83	33.93	-90.50	157.36	-836.98	1,097.02	1,052.20	44.83	24.473		
9,000.00	8,988.16	9,042.19	8,988.16	32.19	34.26	-90.50	157.36	-836.98	1,097.02	1,051.70	45.32	24.206		
9,100.00	9,088.16	9,142.19	9,088.16	32.54	34.59	-90.50	157.36	-836.98	1,097.02	1,051.21	45.81	23.945		
9,200.00	9,188.16	9,242.19	9,188.16	32.89	34.92	-90.50	157.36	-836.98	1,097.02	1,050.71	46.31	23.689		
9,300.00	9,288.16	9,342.19	9,288.16	33.24	35.25	-90.50	157.36	-836.98	1,097.02	1,050.22	46.80	23.438		
9,400.00	9,388.16	9,442.19	9,388.16	33.60	35.57	-90.50	157.36	-836.98	1,097.02	1,049.72	47.30	23.193		
9,500.00	9,488.16	9,542.19	9,488.16	33.95	35.91	-90.50	157.36	-836.98	1,097.02	1,049.23	47.79	22.953		
9,600.00	9,588.16	9,642.19	9,588.16	34.30	36.24	-90.50	157.36	-836.98	1,097.02	1,048.73	48.29	22.717		
9,700.00	9,688.16	9,742.19	9,688.16	34.66	36.57	-90.50	157.36	-836.98	1,097.02	1,048.24	48.79	22.486		
9,800.00	9,788.16	9,842.19	9,788.16	35.01	36.90	-90.50	157.36	-836.98	1,097.02	1,047.74	49.28	22.260		
9,900.00	9,888.16	9,942.19	9,888.16	35.37	37.23	-90.50	157.36	-836.98	1,097.02	1,047.24	49.78	22.038		
10,000.00	9,988.16	10,042.19	9,988.16	35.72	37.56	-90.50	157.36	-836.98	1,097.02	1,046.75	50.28	21.820		
10,100.00	10,088.16	10,142.19	10,088.16	36.07	37.90	-90.50	157.36	-836.98	1,097.02	1,046.25	50.77	21.607		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	10,188.16	10,242.19	10,188.16	36.43	38.23	-90.50	157.36	-836.98	1,097.02	1,045.75	51.27	21.397		
10,300.00	10,288.16	10,342.19	10,288.16	36.78	38.57	-90.50	157.36	-836.98	1,097.02	1,045.26	51.77	21.192		
10,400.00	10,388.16	10,442.19	10,388.16	37.14	38.90	-90.50	157.36	-836.98	1,097.02	1,044.76	52.26	20.990		
10,500.00	10,488.16	10,542.19	10,488.16	37.49	39.24	-90.50	157.36	-836.98	1,097.02	1,044.26	52.76	20.792		
10,600.00	10,588.16	10,642.19	10,588.16	37.84	39.57	-90.50	157.36	-836.98	1,097.02	1,043.76	53.26	20.598		
10,700.00	10,688.16	10,742.19	10,688.16	38.20	39.91	-90.50	157.36	-836.98	1,097.02	1,043.27	53.76	20.407		
10,800.00	10,788.16	10,842.19	10,788.16	38.55	40.24	-90.50	157.36	-836.98	1,097.02	1,042.77	54.25	20.220		
10,900.00	10,888.16	10,942.19	10,888.16	38.91	40.58	-90.50	157.36	-836.98	1,097.02	1,042.27	54.75	20.036		
11,000.00	10,988.16	11,042.19	10,988.16	39.26	40.92	-90.50	157.36	-836.98	1,097.02	1,041.77	55.25	19.855		
11,100.00	11,088.16	11,142.19	11,088.16	39.62	41.25	-90.50	157.36	-836.98	1,097.02	1,041.27	55.75	19.678		
11,200.00	11,188.16	11,242.19	11,188.16	39.97	41.59	-90.50	157.36	-836.98	1,097.02	1,040.77	56.25	19.503		
11,300.00	11,288.16	11,342.19	11,288.16	40.33	41.93	-90.50	157.36	-836.98	1,097.02	1,040.28	56.75	19.332		
11,400.00	11,388.16	11,442.19	11,388.16	40.68	42.27	-90.50	157.36	-836.98	1,097.02	1,039.78	57.25	19.163		
11,500.00	11,488.16	11,542.19	11,488.16	41.04	42.61	-90.50	157.36	-836.98	1,097.02	1,039.28	57.74	18.998		
11,523.84	11,512.00	11,566.03	11,512.00	41.12	42.69	-90.50	157.36	-836.98	1,097.02	1,039.16	57.86	18.959		
11,550.00	11,538.15	11,592.19	11,538.15	41.21	42.78	90.15	157.36	-836.98	1,097.02	1,039.03	57.99	18.917		
11,600.00	11,587.94	11,641.97	11,587.94	41.37	42.95	90.38	157.36	-836.98	1,097.04	1,038.82	58.22	18.842		
11,650.00	11,637.15	11,691.33	11,637.30	41.52	43.11	90.82	157.33	-836.98	1,097.14	1,038.69	58.45	18.770		
11,700.00	11,685.40	11,741.91	11,687.79	41.66	43.27	91.35	154.54	-836.96	1,097.34	1,038.68	58.67	18.705		
11,750.00	11,732.34	11,793.48	11,738.80	41.80	43.43	91.87	147.13	-836.89	1,097.65	1,038.78	58.87	18.645		
11,800.00	11,777.59	11,846.07	11,789.93	41.93	43.58	92.38	134.88	-836.78	1,098.06	1,038.99	59.07	18.590		
11,850.00	11,820.83	11,899.73	11,840.70	42.05	43.72	92.88	117.61	-836.63	1,098.56	1,039.30	59.26	18.539		
11,900.00	11,861.72	11,954.47	11,890.61	42.15	43.86	93.37	95.17	-836.44	1,099.13	1,039.69	59.44	18.493		
11,950.00	11,899.94	12,010.31	11,939.08	42.25	43.98	93.83	67.49	-836.20	1,099.76	1,040.15	59.61	18.451		
12,000.00	11,935.21	12,067.24	11,985.49	42.33	44.10	94.26	34.54	-835.91	1,100.42	1,040.66	59.76	18.413		
12,050.00	11,967.27	12,125.26	12,029.17	42.41	44.20	94.66	-3.60	-835.58	1,101.11	1,041.19	59.92	18.377		
12,100.00	11,995.85	12,184.31	12,069.44	42.49	44.30	95.03	-46.74	-835.20	1,101.79	1,041.73	60.06	18.343		
12,150.00	12,020.76	12,244.32	12,105.61	42.59	44.38	95.35	-94.60	-834.78	1,102.45	1,042.24	60.21	18.309		
12,200.00	12,041.79	12,305.21	12,136.98	42.71	44.45	95.63	-146.76	-834.33	1,103.06	1,042.70	60.36	18.274		
12,250.00	12,058.79	12,366.86	12,162.92	42.84	44.53	95.85	-202.65	-833.84	1,103.59	1,043.08	60.51	18.237		
12,300.00	12,071.63	12,429.13	12,182.88	42.97	44.61	96.02	-261.60	-833.32	1,104.04	1,043.36	60.68	18.195		
12,350.00	12,080.21	12,491.86	12,196.40	43.10	44.70	96.13	-322.81	-832.79	1,104.38	1,043.53	60.85	18.148		
12,400.00	12,084.46	12,554.86	12,203.16	43.24	44.82	96.18	-385.42	-832.24	1,104.61	1,043.57	61.04	18.096		
12,443.82	12,084.61	12,609.10	12,203.47	43.36	44.94	96.18	-439.64	-831.77	1,104.71	1,043.48	61.22	18.044		
12,500.00	12,082.65	12,665.28	12,201.51	43.54	45.09	96.18	-495.78	-831.28	1,104.82	1,043.36	61.46	17.975		
12,600.00	12,079.16	12,765.28	12,198.02	43.90	45.41	96.17	-595.71	-830.41	1,105.04	1,043.08	61.96	17.836		
12,700.00	12,075.68	12,865.28	12,194.53	44.32	45.80	96.17	-695.65	-829.54	1,105.25	1,042.72	62.53	17.675		
12,800.00	12,072.19	12,965.28	12,191.04	44.79	46.25	96.17	-795.58	-828.66	1,105.46	1,042.27	63.19	17.496		
12,900.00	12,068.70	13,065.28	12,187.55	45.31	46.75	96.17	-895.52	-827.79	1,105.67	1,041.75	63.92	17.298		
13,000.00	12,065.22	13,165.28	12,184.06	45.89	47.32	96.17	-995.45	-826.92	1,105.88	1,041.16	64.72	17.086		
13,100.00	12,061.73	13,265.28	12,180.57	46.52	47.93	96.17	-1,095.39	-826.05	1,106.09	1,040.49	65.60	16.860		
13,200.00	12,058.24	13,365.28	12,177.08	47.20	48.60	96.17	-1,195.33	-825.18	1,106.30	1,039.75	66.55	16.623		
13,300.00	12,054.76	13,465.28	12,173.59	47.93	49.31	96.16	-1,295.26	-824.30	1,106.52	1,038.95	67.57	16.376		
13,400.00	12,051.27	13,565.28	12,170.10	48.70	50.07	96.16	-1,395.20	-823.43	1,106.73	1,038.08	68.65	16.122		
13,500.00	12,047.78	13,665.28	12,166.61	49.51	50.86	96.16	-1,495.13	-822.56	1,106.94	1,037.15	69.79	15.862		
13,600.00	12,044.29	13,765.28	12,163.12	50.37	51.70	96.16	-1,595.07	-821.69	1,107.15	1,036.16	70.98	15.597		
13,700.00	12,040.81	13,865.28	12,159.63	51.26	52.58	96.16	-1,695.00	-820.81	1,107.36	1,035.12	72.24	15.330		
13,800.00	12,037.32	13,965.28	12,156.14	52.19	53.49	96.16	-1,794.94	-819.94	1,107.57	1,034.03	73.54	15.061		
13,900.00	12,033.83	14,065.28	12,152.65	53.15	54.44	96.16	-1,894.87	-819.07	1,107.78	1,032.89	74.89	14.791		
14,000.00	12,030.35	14,165.28	12,149.16	54.15	55.42	96.16	-1,994.81	-818.20	1,107.99	1,031.70	76.29	14.523		
14,100.00	12,026.86	14,265.28	12,145.67	55.18	56.44	96.15	-2,094.74	-817.33	1,108.21	1,030.47	77.74	14.256		
14,200.00	12,023.37	14,365.28	12,142.18	56.24	57.48	96.15	-2,194.68	-816.45	1,108.42	1,029.19	79.22	13.991		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design County Fair/Blue Ribbon - County Fair Fed Com 701H2 - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,300.00	12,019.89	14,465.28	12,138.69	57.33	58.55	96.15	-2,294.61	-815.58	1,108.63	1,027.88	80.75	13.729		
14,400.00	12,016.40	14,565.28	12,135.20	58.44	59.64	96.15	-2,394.55	-814.71	1,108.84	1,026.53	82.31	13.471		
14,500.00	12,012.91	14,665.28	12,131.71	59.58	60.76	96.15	-2,494.48	-813.84	1,109.05	1,025.14	83.91	13.217		
14,600.00	12,009.43	14,765.28	12,128.22	60.74	61.91	96.15	-2,594.42	-812.97	1,109.26	1,023.72	85.54	12.968		
14,700.00	12,005.94	14,865.27	12,124.73	61.92	63.08	96.15	-2,694.35	-812.09	1,109.47	1,022.27	87.20	12.723		
14,800.00	12,002.45	14,965.27	12,121.24	63.13	64.26	96.14	-2,794.29	-811.22	1,109.69	1,020.79	88.90	12.483		
14,900.00	11,998.96	15,065.27	12,117.75	64.35	65.47	96.14	-2,894.22	-810.35	1,109.90	1,019.28	90.62	12.248		
15,000.00	11,995.48	15,165.27	12,114.26	65.60	66.70	96.14	-2,994.16	-809.48	1,110.11	1,017.75	92.36	12.019		
15,100.00	11,991.99	15,265.27	12,110.77	66.86	67.94	96.14	-3,094.09	-808.61	1,110.32	1,016.19	94.13	11.795		
15,200.00	11,988.50	15,365.27	12,107.28	68.13	69.20	96.14	-3,194.03	-807.73	1,110.53	1,014.60	95.93	11.577		
15,300.00	11,985.02	15,465.27	12,103.79	69.43	70.48	96.14	-3,293.96	-806.86	1,110.74	1,013.00	97.75	11.364		
15,400.00	11,981.53	15,565.27	12,100.30	70.73	71.78	96.14	-3,393.90	-805.99	1,110.95	1,011.37	99.58	11.156		
15,500.00	11,978.04	15,665.27	12,096.81	72.06	73.08	96.14	-3,493.83	-805.12	1,111.16	1,009.72	101.44	10.954		
15,600.00	11,974.56	15,765.27	12,093.32	73.39	74.40	96.13	-3,593.77	-804.24	1,111.38	1,008.06	103.32	10.757		
15,700.00	11,971.07	15,865.27	12,089.83	74.74	75.74	96.13	-3,693.70	-803.37	1,111.59	1,006.38	105.21	10.565		
15,800.00	11,967.58	15,965.27	12,086.34	76.10	77.08	96.13	-3,793.64	-802.50	1,111.80	1,004.68	107.12	10.379		
15,900.00	11,964.09	16,065.27	12,082.85	77.47	78.44	96.13	-3,893.57	-801.63	1,112.01	1,002.96	109.05	10.197		
16,000.00	11,960.61	16,165.27	12,079.36	78.85	79.81	96.13	-3,993.51	-800.76	1,112.22	1,001.23	110.99	10.021		
16,100.00	11,957.12	16,265.27	12,075.87	80.24	81.19	96.13	-4,093.44	-799.88	1,112.43	999.49	112.95	9.849		
16,200.00	11,953.63	16,365.27	12,072.38	81.65	82.58	96.13	-4,193.38	-799.01	1,112.64	997.73	114.92	9.682		
16,300.00	11,950.15	16,465.27	12,068.89	83.06	83.97	96.12	-4,293.31	-798.14	1,112.86	995.96	116.90	9.520		
16,400.00	11,946.66	16,565.27	12,065.40	84.48	85.38	96.12	-4,393.25	-797.27	1,113.07	994.17	118.89	9.362		
16,500.00	11,943.17	16,665.27	12,061.91	85.90	86.80	96.12	-4,493.18	-796.40	1,113.28	992.38	120.90	9.208		
16,600.00	11,939.69	16,765.27	12,058.42	87.34	88.22	96.12	-4,593.12	-795.52	1,113.49	990.57	122.92	9.059		
16,700.00	11,936.20	16,865.27	12,054.93	88.78	89.65	96.12	-4,693.05	-794.65	1,113.70	988.75	124.95	8.913		
16,800.00	11,932.71	16,965.27	12,051.44	90.23	91.09	96.12	-4,792.99	-793.78	1,113.91	986.93	126.99	8.772		
16,900.00	11,929.23	17,065.27	12,047.95	91.69	92.54	96.12	-4,892.92	-792.91	1,114.12	985.09	129.03	8.634		
17,000.00	11,925.74	17,165.27	12,044.46	93.15	93.99	96.12	-4,992.86	-792.03	1,114.34	983.24	131.09	8.500		
17,100.00	11,922.25	17,265.27	12,040.97	94.62	95.45	96.11	-5,092.79	-791.16	1,114.55	981.39	133.16	8.370		
17,200.00	11,918.76	17,363.63	12,037.54	96.10	96.89	96.11	-5,191.09	-790.37	1,114.82	979.60	135.22	8.245		
17,300.00	11,915.28	17,461.73	12,034.11	97.58	98.33	96.11	-5,289.13	-789.74	1,115.26	977.98	137.29	8.124		
17,400.00	11,911.79	17,559.83	12,030.69	99.06	99.78	96.11	-5,387.17	-789.28	1,115.88	976.51	139.36	8.007		
17,500.00	11,908.30	17,657.93	12,027.26	100.56	101.23	96.10	-5,485.21	-788.99	1,116.66	975.21	141.45	7.895		
17,600.00	11,904.82	17,756.02	12,023.84	102.05	102.69	96.10	-5,583.24	-788.87	1,117.62	974.08	143.54	7.786		
17,700.00	11,901.33	17,854.11	12,020.42	103.55	104.15	96.09	-5,681.27	-788.91	1,118.74	973.11	145.63	7.682		
17,800.00	11,897.84	17,952.20	12,016.99	105.06	105.62	96.08	-5,779.30	-789.13	1,120.03	972.30	147.73	7.582		
17,900.00	11,894.36	18,050.28	12,013.57	106.57	107.09	96.08	-5,877.32	-789.51	1,121.50	971.66	149.84	7.485		
18,000.00	11,890.87	18,148.36	12,010.15	108.08	108.57	96.07	-5,975.33	-790.06	1,123.13	971.19	151.95	7.392		
18,100.00	11,887.38	18,246.43	12,006.72	109.60	110.04	96.06	-6,073.34	-790.77	1,124.94	970.87	154.06	7.302		
18,200.00	11,883.90	18,344.49	12,003.30	111.12	111.53	96.05	-6,171.34	-791.66	1,126.91	970.73	156.19	7.215		
18,300.00	11,880.41	18,442.55	11,999.88	112.65	113.01	96.03	-6,269.33	-792.71	1,129.06	970.75	158.31	7.132		
18,400.00	11,876.92	18,540.60	11,996.46	114.18	114.50	96.02	-6,367.31	-793.93	1,131.38	970.94	160.44	7.052		
18,500.00	11,873.43	18,638.64	11,993.04	115.71	115.99	96.01	-6,465.29	-795.32	1,133.86	971.29	162.57	6.974		
18,600.00	11,869.95	18,736.67	11,989.61	117.24	117.49	95.99	-6,563.25	-796.87	1,136.52	971.81	164.71	6.900		
18,700.00	11,866.46	18,834.70	11,986.19	118.78	118.98	95.98	-6,661.20	-798.59	1,139.34	972.49	166.85	6.828		
18,800.00	11,862.97	18,932.71	11,982.77	120.32	120.48	95.96	-6,759.13	-800.48	1,142.34	973.34	169.00	6.759		
18,900.00	11,859.49	19,030.71	11,979.35	121.87	121.98	95.95	-6,857.05	-802.54	1,145.51	974.36	171.15	6.693		
19,000.00	11,856.00	19,128.71	11,975.93	123.42	123.49	95.93	-6,954.96	-804.77	1,148.84	975.54	173.30	6.629		
19,100.00	11,852.51	19,227.27	11,972.49	124.96	125.00	95.91	-7,053.43	-807.17	1,152.34	976.88	175.46	6.568		
19,200.00	11,849.03	19,327.20	11,969.01	126.52	126.54	95.89	-7,153.28	-809.64	1,155.88	978.24	177.64	6.507		
19,300.00	11,845.54	19,427.14	11,965.52	128.07	128.09	95.88	-7,253.12	-812.12	1,159.42	979.60	179.83	6.447		
19,400.00	11,842.05	19,527.08	11,962.03	129.63	129.63	95.86	-7,352.97	-814.59	1,162.97	980.95	182.01	6.389		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design County Fair/Blue Ribbon - County Fair Fed Com 701H2 - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-OWSG (Rev2) MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
				(usft)	(usft)	(°)								
19,500.00	11,838.57	19,627.01	11,958.54	131.19	131.18	95.84	-7,452.81	-817.06	1,166.51	982.30	184.21	6.333		
19,600.00	11,835.08	19,726.95	11,955.06	132.75	132.73	95.82	-7,552.66	-819.54	1,170.05	983.65	186.40	6.277		
19,700.00	11,831.59	19,826.89	11,951.57	134.31	134.28	95.80	-7,652.50	-822.01	1,173.59	984.99	188.60	6.223		
19,800.00	11,828.10	19,926.82	11,948.08	135.88	135.83	95.79	-7,752.35	-824.49	1,177.13	986.34	190.80	6.169		
19,900.00	11,824.62	20,026.76	11,944.60	137.45	137.39	95.77	-7,852.19	-826.96	1,180.68	987.67	193.00	6.117		
20,000.00	11,821.13	20,126.70	11,941.11	139.02	138.94	95.75	-7,952.04	-829.44	1,184.22	989.01	195.21	6.066		
20,100.00	11,817.64	20,226.63	11,937.62	140.59	140.50	95.73	-8,051.88	-831.91	1,187.76	990.34	197.42	6.016		
20,200.00	11,814.16	20,326.57	11,934.13	142.16	142.06	95.72	-8,151.73	-834.39	1,191.30	991.67	199.63	5.968		
20,300.00	11,810.67	20,426.51	11,930.65	143.74	143.63	95.70	-8,251.57	-836.86	1,194.85	993.00	201.84	5.920		
20,400.00	11,807.18	20,526.44	11,927.16	145.31	145.19	95.68	-8,351.42	-839.34	1,198.39	994.33	204.06	5.873		
20,500.00	11,803.70	20,626.38	11,923.67	146.89	146.76	95.66	-8,451.26	-841.81	1,201.93	995.65	206.28	5.827		
20,600.00	11,800.21	20,726.31	11,920.18	148.47	148.33	95.65	-8,551.11	-844.29	1,205.48	996.97	208.50	5.782		
20,700.00	11,796.72	20,826.25	11,916.70	150.05	149.90	95.63	-8,650.95	-846.76	1,209.02	998.29	210.73	5.737		
20,800.00	11,793.23	20,926.19	11,913.21	151.63	151.47	95.61	-8,750.80	-849.24	1,212.56	999.61	212.95	5.694		
20,900.00	11,789.75	21,026.12	11,909.72	153.22	153.04	95.60	-8,850.64	-851.71	1,216.11	1,000.93	215.18	5.652		
21,000.00	11,786.26	21,126.06	11,906.23	154.80	154.62	95.58	-8,950.49	-854.19	1,219.65	1,002.24	217.41	5.610		
21,100.00	11,782.77	21,226.00	11,902.75	156.39	156.19	95.56	-9,050.33	-856.66	1,223.19	1,003.55	219.64	5.569		
21,200.00	11,779.29	21,325.93	11,899.26	157.98	157.77	95.55	-9,150.18	-859.13	1,226.74	1,004.86	221.87	5.529		
21,300.00	11,775.80	21,425.87	11,895.77	159.57	159.35	95.53	-9,250.02	-861.61	1,230.28	1,006.17	224.11	5.490		
21,400.00	11,772.31	21,525.81	11,892.29	161.16	160.93	95.52	-9,349.87	-864.08	1,233.82	1,007.48	226.35	5.451		
21,500.00	11,768.83	21,625.74	11,888.80	162.75	162.51	95.50	-9,449.71	-866.56	1,237.37	1,008.78	228.59	5.413		
21,600.00	11,765.34	21,725.68	11,885.31	164.35	164.09	95.48	-9,549.56	-869.03	1,240.91	1,010.08	230.83	5.376		
21,700.00	11,761.85	21,825.62	11,881.82	165.94	165.67	95.47	-9,649.40	-871.51	1,244.46	1,011.38	233.07	5.339		
21,800.00	11,758.37	21,925.55	11,878.34	167.54	167.26	95.45	-9,749.25	-873.98	1,248.00	1,012.68	235.32	5.304		
21,900.00	11,754.88	22,025.49	11,874.85	169.13	168.84	95.44	-9,849.09	-876.46	1,251.54	1,013.98	237.56	5.268		
22,000.00	11,751.39	22,125.43	11,871.36	170.73	170.43	95.42	-9,948.94	-878.93	1,255.09	1,015.28	239.81	5.234		
22,100.00	11,747.90	22,225.36	11,867.87	172.33	172.02	95.41	-10,048.78	-881.41	1,258.63	1,016.58	242.06	5.200		
22,200.00	11,744.42	22,325.30	11,864.39	173.93	173.60	95.39	-10,148.63	-883.88	1,262.18	1,017.87	244.31	5.166		
22,444.96	11,742.85	22,370.23	11,862.82	174.65	174.32	95.38	-10,193.52	-884.99	1,263.77	1,018.45	245.32	5.152 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3246.2' GE + 30' KB @ 3276.20usft

Offset Depths are relative to Offset Datum

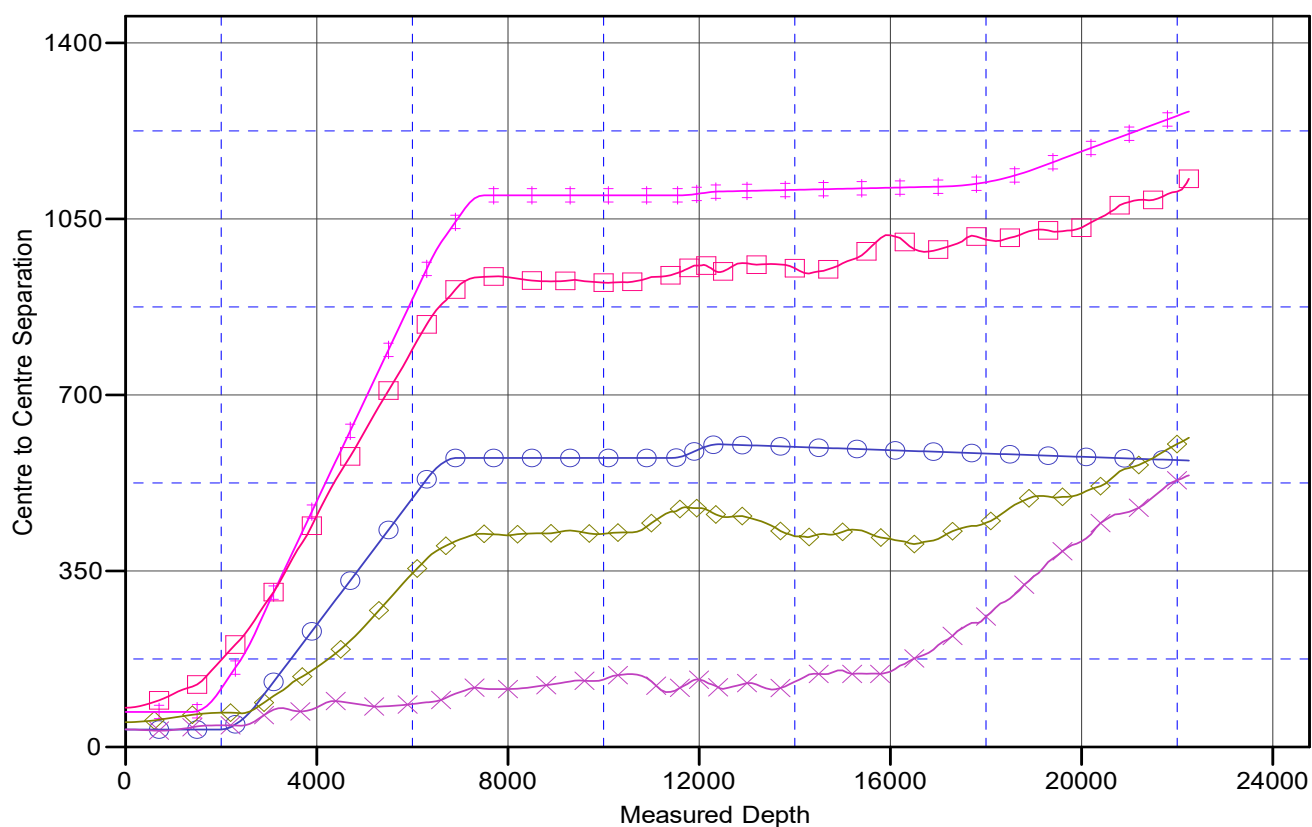
Central Meridian is -104.333334

Coordinates are relative to: Blue Ribbon Fed Com 702H2

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.53°

Ladder Plot



LEGEND

- County Fair Fed Com 602H2, OH, Plan #1 V0
- County Fair Fed Com 701H2, OH, Plan #1 V0
- County Fair Fed Com 701H2, OH, OH V0
- County Fair Fed Com 602H2, OH, OH V0
- Blue Ribbon Fed Com 702H2, OH, OH V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Total Directional Services

Anticollision Report



Company:	Franklin Mountain Energy	Local Co-ordinate Reference:	Well Blue Ribbon Fed Com 702H2
Project:	Lea County, NM (NAD83)	TVD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Reference Site:	County Fair/Blue Ribbon	MD Reference:	3246.2' GE + 30' KB @ 3276.20usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Blue Ribbon Fed Com 702H2	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
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Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3246.2' GE + 30' KB @ 3276.20usft

Offset Depths are relative to Offset Datum

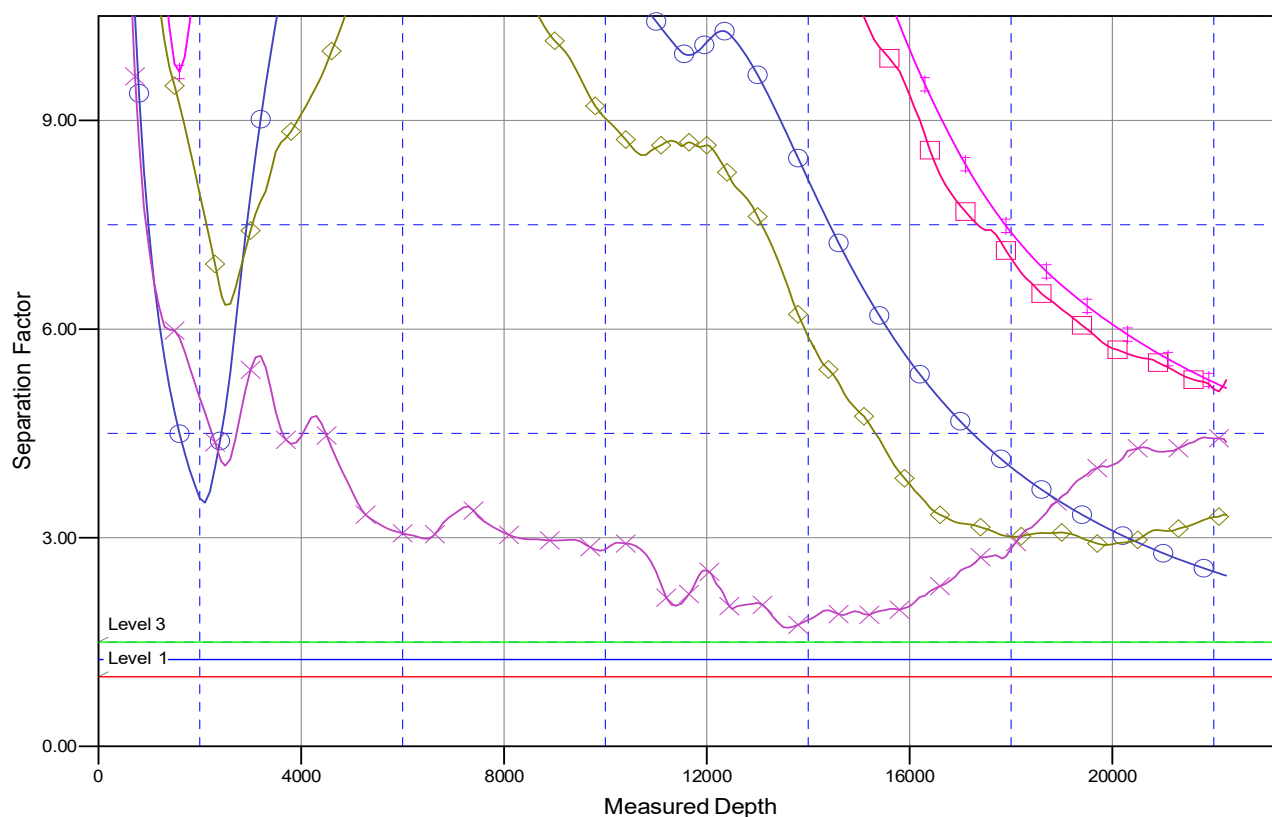
Central Meridian is -104.333334

Coordinates are relative to: Blue Ribbon Fed Com 702H2

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.53°

Separation Factor Plot



LEGEND

● County Fair Fed Com 602H2, OH, Plan #1 V0
 ■ County Fair Fed Com 701H2, OH, OH V0
 ✕ Blue Ribbon Fed Com 702H2, OH, OH V0
● County Fair Fed Com 701H2, OH, Plan #1 V0
 ■ County Fair Fed Com 602H2, OH, OH V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

FRANKLIN MOUNTAIN ENERGY



Geologic Prognosis

Well Name	Blue Ribbon Fed Com 702HY
Operator	Franklin Mountain Energy, LLC
Project Area	Carnival Wells
Well Type	10,000' Wolfcamp Lateral
API	
Permit Number	
Rig	

State	NM	County	Lea						
SHL	Township	25S/35E	Section	2	1,355'	FWL	215'	FNL	
BHL	Township	25S/35E	Section	11	1,639'	FWL	150'	FSL	
Surface Latitude	NAD 27		32.166132						
Surface Longitude	NAD 27		103.342468						
Bottom Hole Latitude	NAD 27		32.138031						
Bottom Hole Longitude	NAD 27		103.341568						
Ground Level	3,246'		Rig KB	30'	KB	3,276'			

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,246'	30'	30'	0	Sand/Gravels/unconsolidated
Rustler	2,406'	870'			Carbonates
Salado	1,633'	1,643'			Salt, Carbonate & Clastics
Base Salt	-473'	3,749'			Shaley Carbonate & Shale
Lamar	-1,848'	5,124'			Carbonate & Clastics
Bell Canyon	-1,974'	5,250'			Sandstone - oil/gas/water
Cherry Canyon	-2,821'	6,097'			Sandstone - oil/gas/water
Brushy Canyon	-4,199'	7,475'			Sand/carb/shales - oil/gas/water
Bone Spring Lime	-5,593'	8,869'			Shale/Carbonates - oil/gas
Avalon	-5,665'	8,941'			Shale/Carbonates - oil/gas
Chert Zone	-5,863'	9,139'			Carbonate/Chert
First Bone Spring Sand	-6,776'	10,052'			Sandstone - oil/gas/water
Second Bone Spring Carbonates	-6,847'	10,123'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-7,323'	10,599'			Sandstone - oil/gas/water
Third Bone Spring Carbonates	-7,894'	11,170'			Shale/Carbonates - oil/gas
Third Bone Spring Sand	-8,514'	11,790'			Sandstone - oil/gas/water
Wolfcamp	-8,747'	12,023'			Overpressure shale/sand- Oil/Gas
Wolfcamp A	-8,785'	12,061'			Overpressure Shale - Oil/Gas
HZ Target	-8,847'	12,123'			Overpressure Shale - Oil/Gas
Wolfcamp B	-8,999'	12,275'			Overpressure Shale - Oil/Gas

Target interval dips are variable along the lateral, but expected to have an average apparent dip of 2 degrees up at landing

Target window tolerance is set at +/- 15'

Target Line: 12100' KBTVD @ 0' VS w/ 92° inc.

Offset Log: Reno Com-1 (300252686700)

Updated 8/19/21

FME Geologist	Ben Kessel		bkessel@fmellc.com	
	Office	720.414.7868	Cell	303.868.9946
FME Engineer				
Electric Logs	From		To	
Open-Hole				
MWD/LWD				
	MWD GR		Int. 1 Csg. Point	TD
Mud Log:				
Start logging at drill out of surface casing				
Sampling:	30' samples in vertical, 10' in the curve, 30' samples in lateral			
Samples:	1 set dry samples at footage frequency noted above			
Mud Gas:	Continuous			
Daily Contact:	Email distribution of mud log/daily report at 7:30am and 4:30 pm CST			
Daily Mud Log Email Distribution List				
Final Mud Log Distribution				
	Ben Kessel (bkessel@fmellc.com)			email
Cuttings/Samples Shipment Information				

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Franklin Mountain Energy, LLC **OGRID:** 373910 **Date:** 09 / 20 / 2021

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footage	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
County Fair Fed Com 602H		Lot 4-2-25S-35E	215 FNL 1320	FWL 800+/-	1100+/-	500 +/-
County Fair Fed Com 701H		Lot 4-2-25S-35E	215 FNL 1285	FWL 800+/-	1100+/-	500 +/-

Blue Ribbon Fed Com 702H **30-025-49394** Lot 4-2-25S-35E 215 FNL 1285 FWL 800+/- 1100+/- 500 +/-
IV. Central Delivery Point Carnival CTB: facility ID (f#) fAPP2123468509 [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date Batch Drilling	Completion Commencement Date	Initial Flow Back Date	First Production Date
County Fair Fed Com 602H		11/1/2021	1/20/2022	2/1/2022	2/21/2022	3/1/2022
County Fair Fed Com 701H		11/1/2021	1/20/2022	2/1/2022	2/21/2022	3/1/2022

Blue Ribbon Fed Com 702H **30-025-49394** 11/1/2021 1/20/2022 2/1/2022 2/21/2022 3/1/2022

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☒ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

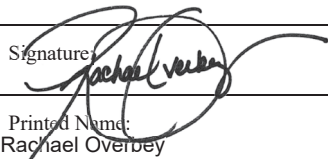
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Rachael Overbey
Title: Director - Ops Planning & Regulatory
E-mail Address: roverbey@fmellc.com
Date: 9/20/2021
Phone: 720-414-6878
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Natural Gas Management Plan

Items VI-VIII

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Data from surrounding wells is used to generate type curves which provides the basis for expected gas rates during initial production, peak production and then the natural decline.
- Separation equipment will be sized to provide adequate separation for peak production.
- Facility design includes multiple stages of separation to minimize gas waste. Wells flow through a high pressure 2-phase separator to remove bulk gas, liquid from the 2-phase separator is sent to a 3-phase separator where additional gas is separated. Gas from the 2 Phase and 3 Phase separators are then sent through a gas scrubber before being route to treatment and/or sales. As production declines the 2-phase separator may be removed.
- Industry standard sizing calculations are used for gas-liquid separation and liquid-liquid separation.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

- Drilling, completion and production setup is designed to minimize the waste of natural gas and to flare instead of vent.
- *Drilling Operations:*
 - Natural gas encountered will be flared instead of vented unless there is an equipment malfunction and/or to avoid risking safety or the environment.
 - Flares will be properly sized and placed at least 100' from the nearest surface hole on the pad.
- *Completions/Recompletions Operations:*
 - Flowback operations will not commence until connected to a properly sized gas gathering system.
 - During initial flowback wells are routed to the separation equipment as soon as technically feasible to minimize gas waste.
 - During separation flowback wells are routed to the separation equipment to minimize gas waste.
 - Gas sales is maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
 - Flares are properly sized with a continuous pilot.
- *Production Operations:*
 - Gas sales will be maximized. Gas will be flared instead of vented during an emergency or malfunction to avoid posing a risk to operations or personnel safety.
 - After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- *Performance Standards:*
 - The facility will be designed to handle peak production rates and pressures.
 - All tanks will have automatic gauging equipment.
 - Flares will be designed to ensure proper combustion and will have continuous pilots. Flares will be located 100' from nearest surface hole on the pad and storage tanks.
 - Weekly AVOs will be performed, and any leaking thief hatches will be cleaned and properly re-sealed.



- *Measurement and Calibration:*
 - All volume that is flared and vented that is not measured will be estimated.
 - When metering is not practical due to low pressure/rate, all vented or flared volumes will be estimated.
 - Measurement will conform to industry standards. Measurement will not be bypassed except for purposes of inspection or calibration.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

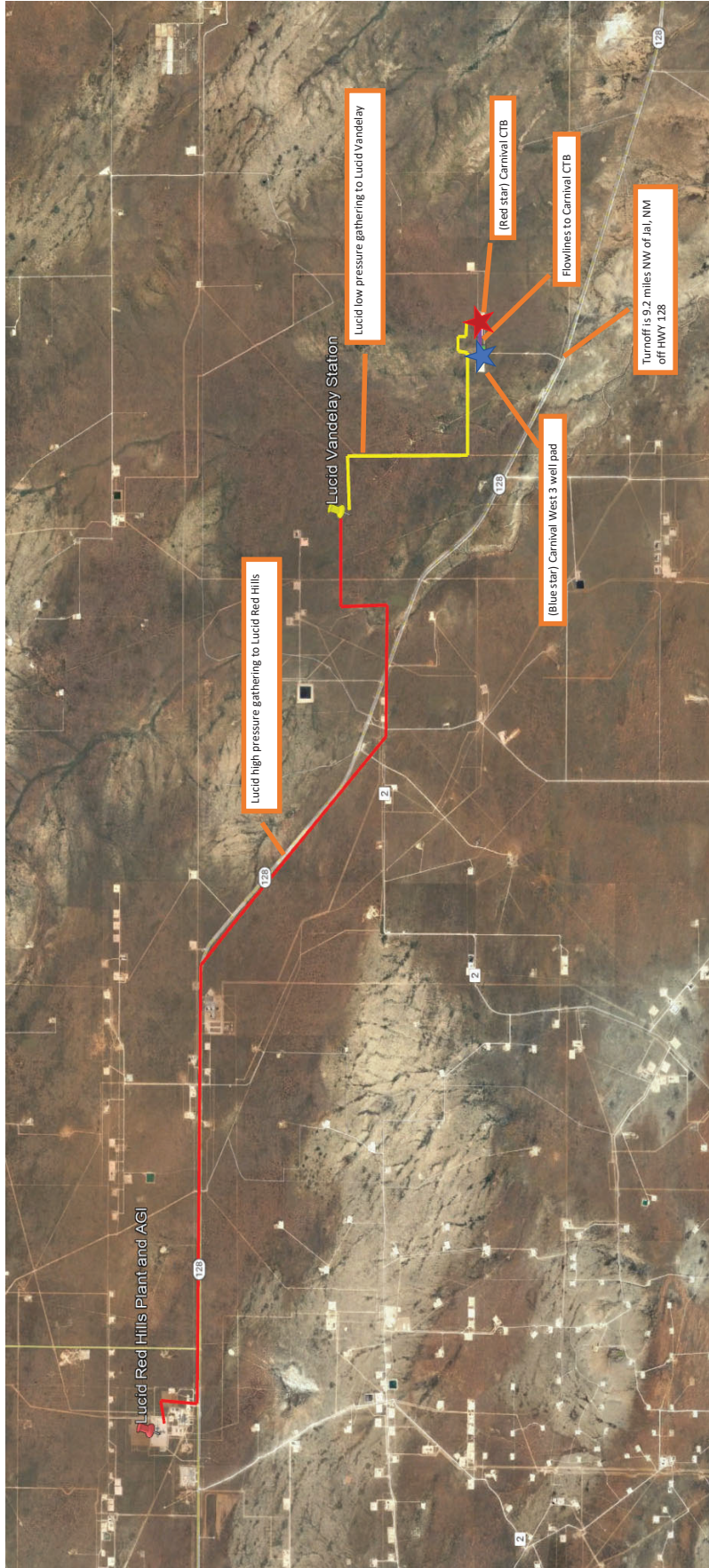
- Venting will be minimized during active and planned maintenance.
- Systems and equipment requiring maintenance will be isolated and blown down to sales and then flare before any remaining gas is vented in an effort to minimize waste and venting.
- Downhole maintenance will use best management practices to minimize vent.

XI. Map attached

Carnival West NGMP Map

Sep 2021

- Capacities reflected are FME's understanding of Lucid's system capacity



District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 49918

CONDITIONS

Operator: Franklin Mountain Energy LLC 44 Cook Street Denver, CO 80206	OGRID: 373910
	Action Number: 49918
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/21/2021
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/21/2021
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/21/2021
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/21/2021